

INDEX

Forty-third Quarto Volume—July 1, 1907, to December 31, 1907

AUTHORS

- Arkenburgh, W. H., 168
- Barkley, H. J., 650
Betts, E. E., 264
Boyd, E. B., 524
Brigg, T. H., 198
Brown, J. M., 761
Buell, D. C., 692
Burnham, Williams & Co., 707
- Calkins, R. L., 150, 197
Camp, W. J., 40
Campbell, M. R., 38
Carter, C. F., 91
Caruthers, C. H., 97, 357, 490, 719
Clark, E. E., 557
Commander, L. K., 355
Conant, C. A., 64
Cornell, C. H., 622
Crafts, P. P., 628
Crump, F. H., 284
- Dean, F. W., 643
Deming, C., 157
De Mural, C. L., 282
Diaz, Pres., Porfirio, 866
Dudley, C. B., 742
- Estep, H. C., 360, 416
- Fiero, S. T., 707, 746
Finley, W. W., 614
Fowler, G. L., 317, 591, 752, 136
Freeman, L. R., 125
Fry, U. J., 19
- Gibbs, G., 41
Goss, Prof. W. F. M., 354
Green, L., 503
Grey, H., & Son, 58
Guffey, J. W., 651
- Haarmann, Dr. Ing. N. C. A., 352
Hale, Arthur, 525, 672
Handy, E. A., 305
Harris, E. J., 421
- Hart, J. H., 617
Hastings, Clive, 594
Heinle, A. W., 677
Hill, J. J., 631
Hines, W. D., 398
Holmes, Justice O. W., 626
Hope, H. C., 8
Howe, M. A., 90, 231
Humphreys, A. C., 383
Hunt, W. P., 382
- Ildage, H. T., 67
Isaacs, J. D., 116
- Jackson, J. F., 556
Johnson, L. E., 304
Jones, L. M., 257
Jordan, J. G., 357
- Kellogg, A. A., 389
King, C. R., 520
- Lane, F. K., 399
Leigaton, G. B., 415
Livingstone, J., 255
Luiggi, L., 4
- McCormack, H. E., 664
McCue, J. H., 168
McHenry, E. H., 177
McKeen, W. R., Jr., 116
Mahl, William, 418
Marshal, Justice R. D., 773
Mather, Robert, 452
Maxwell, J. R., 4
Mitchell, T. W., 286
Mohler, A. L., 64
Morris, Ray, 425
Murphy, John, 22
- Nau, C. H., 94
Norris, G. L., 495, 532
- Ommeganck, E., 661
- Paley, W. B., 566
- Parrott, J. R., 429
Peckham, Justice R. W., 758
Phelps, A. B., 649
Phillips, U. B., 122
Pierce, H. J., 647
Pringle, Maj. J. W., 11
Prout, Col. H. G., 60, 460
- Rankin, Hugh, 396
Richards, R. C., 323
Roberts, E. P., 783
Roberts, S. S., 772
Robinson, E. G., 42, 154, 233, 270, 331
Rodrigue, M., 152
Rohwer, H., 724
- Sandberg, C. P., 96
Sargent, F. W., 142
Schaub, J. W., 4, 282
Seley, C. A., 415
Shean, J. R., 650
Smith, M. H., 789
Smith, W. N., 422, 461
Stebbins, Theodore, 586
Steward, G. H., 318
Swope, C. A., 184
- Taft, W. H., 200
Tait, Thomas, 709
Trevethick, F. H., 152
- Vaughan, H. H., 357
- Wadleigh, F. R., 550
Walker, H. T., 224
Warfield, E., 353
Webber, R. I., 143
Whitney, H. M., 21
Wild, M. B., 352
Wille, H. V., 93
Wilson, J. P., 260
Winsor, Paul, 492
Winter, E. W., 106
- York, J. E., 198

GENERAL INDEX

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡.]

- A**
- Abt Rock-Road, 395
- Abyssinia, Railroad Receivership, 23
- Accidents, Train:
- Angers, France, Derailment, 160
 - Arbroath (Elliot Junction), Scotland, 11
 - B. & O., near Bellaire, Ohio, 400
 - Barcelona, Spain, Derailment, 663
 - B. & M., Collision near Canaan, N. H., 310†, 322
 - Can. Pac., Derailment near Caledon, Ont., 303
 - Charleston & Mattoon Interurban, near Charleston, Ill., 256, 279†, 535
 - C. R. I. & P., Derailment at Norris, Iowa, 303
 - Contras, France, Collision, 243
 - Derailments and Brakes in England, 481†
 - Elliot Junction, Scotland, 11
 - Gov't Bulletins: No. 23, 116; No. 24, 588.
 - Heavy Rail for Trainmen Concerned in Collision, 107
 - London & North Western, at Shrewsbury, Eng., 468, 481†
 - Louisiana Commission, Reports to, 631
 - Metropolitan Underground (London), 535
 - Mex. Cent., Aguascalientes, 366
 - Monthly Summaries: May, 1907, 32†; June, 88†; July, 194†; Aug., 312†; Sept., 481†; Oct., 641†, 772†; Nov., 739†
 - N. Y. C. & H. R., Derailment at Woodlawn, 198†, 255†, 264, 727, 735†
 - N. Y. State, Reports to Commission, 273, 345†, 355*
 - Pere Marquette, Salem, Mich., 91, 114† 124*, 168†, 253†
 - Posen, Prussia, Derailment, 186
 - Union Pacific and Southern Pacific, Publication of Reports, 2†
 - State Legislation in 1907, 168
 - Texas, Reports to R. R. Commission, 303
 - Third Rail, England, 294, 642†
 - Trainmen's Responsibility, 405†, 772†
 - Wabash Fined for Failure to Report to I. C. C., 599
 - Wrecking Outfits, 749
- Accounting:
- Detachable Voucher Draft, 284*
 - Equipment Account, Individual, 640†
 - I. C. C. Revision, 86†, 352†, 406†, 418, 503
 - Texas Rules, 467
- Adams, B. B., 58
- Adams Express Co.:
- Changes in Officers, 400, 568
 - No Longer on Boston & Albany, 159
- Advertising:
- On Freight Cars, 253†
- Africa:
- Algeria and Tunis, Railroads in, 394
 - Cars as Missionary Stations, 420
 - Congo R. R., 705†
 - Katanga R. R., 458
 - Lobito Railroad, 534
 - Nigeria, R. R. Building, 186, 238
 - Railroad Mileage, 649
 - West African Railroads, 697
- Air Brake (See Brake)
- Alabama:
- Excess of Traffic over Facilities, 664, 789
- American & Manchurian Line, 274
- Amer. Air Cleaning Co., Vacuum Car Cleaning System, 600*
- Am. Assoc. of Local Freight Agents' Associations, Annual Meeting, 96
- American Blower Co., Atlantic City Exhibit, 632
- American Bridge Co., Improvements to Empire Bridge Co. Plant, 243
- American Coupling Co., Tender Hose Coupling, 242*
- American Hydraulic Stone Co., Fire Test of Concrete Block Building, 22
- American-Korean Electric Co., 666
- American Locomotive Co. (See also Locomotive & Mach. Co.):
- Annual Report, 504
 - Decapod Locomotive, B. R. & P., 151*
 - Elec. Locomotive, Bush Terminal, 788*
 - Jamestown Exhibit, 185
 - Mallet Compound, Erie, 170*, 384*
 - Pacific Locomotive, L. S. & M. S., 258*
 - Pacific Locomotive, Penna. Lines West, 238*
 - Prairie Locomotive, M. St. P. & S. Ste. M., 119*
 - Switching Locomotive, Burden Iron Co., 360*
 - Ten-Wheel Freight Locomotive, C. & N.-W., 6*
- American Railway Association:
- Bureau of Explosives, Report, 561
 - Car Efficiency Bulletins, 133, 221†, 344†, 467, 553, 584, 627, 791
 - Car Efficiency Committee's Work, 672†
 - Fall Session, 553
 - Rail Committee, 310†, 367, 443†, 577†, 735†
 - Rail Sections, 608†, 627*, 671†, 677†
 - Rail Specifications, 250†
 - Third Rail, Standard Location for, 559*
- Am. Ry. Engineering Maint. of Way Assoc.:
- Rail Sections, 444†
 - Rail Specifications, 1†, 250†
- American Railway Master Mechanics' Association:
- Convention Plans, 333, 505
- Am. Soc. of Civil Engineers:
- Discussion, Electric Railways, 41
 - Rail Section, 444†, 608†*
 - Rail Specifications, 1†, 250†, 443†
- American Society for Testing Materials:
- Convention, 430, 491
 - Convention Exhibits, 491
 - Rail Corrugations, 480†
 - Rail Specifications, 1†, 13, 56†, 250†
 - Standards, 511†, 528*
 - Standard Specifications for Structural Timber, 155
- Ames, Azel, Jr., 58
- Ann Arbor, Annual Report, 614†*
- Annual Reports (See Corporation Names; also Accounting)
- Arch (See Bridge)
- Argentine:
- Budget for 1908, 237
 - New R. R. Project, 790
 - Railroad Consolidation in, 22
- Argentine Trans-Andine, 125*
- Arnold Company:
- Beech Grove Shops of the C. C. C. & St. L., 655*
 - Stratford Shops, Grand Trunk, 726*
- Around the World, New Record, 105
- Ashokan Dam, 274
- Association (See Names)
- Assoc. of Ry. Supts. of Bridges and Buildings:
- Annual Convention, 493*
 - Convention Exhibits, 494
 - Smoke Jacks, Report on, 500*
- Assoc. of Transportation and Car Accounting:
- Officers, Meetings, 40, 742
- Atchison, Topeka & Santa Fe:
- Annual Report, 409†*
 - Apprentices, 333
 - Employees' Merits, 106
 - Fuel Department, 504
 - I. C. C. Report, Harriman Investigation, 60
 - Rebates, 75, 467, 601
 - Recreation Houses, 243
 - Transcontinental Cut-Off, 228*
- Atlanta, Birmingham & Atlantic, Annual Report, 675†*
- Atlantic City, Permanent Convention Pier, 443†
- Atlantic Equipment Co., Hydraulic Dredge, 623*
- Auditing (See Accounting)
- Austria, Electrification, 237
- Austrian State Railroads:
- Condition of Equipment, 646
 - Tie Orders, 709
- Automatic Stops (See Safety Appliances)
- Automobile, Speed Records, 4, 730
- B**
- Baggage (See Passenger Rates)
- Baldwin Locomotive Works:
- Bal. Comp. Atlantic for C. M. & St. P., 596*
 - Consolidation and Inspection, South Manchurian, 690*
 - Electric Locomotive, Penna. R. R., 327*, 624*, 707†
 - Pacific Locomotive, N. Y. N. H. & H., 554*
 - Repairing Erie Engines, 429
 - Ten-Wheel Comp., Buenos Ayres Western, 269*
 - Ten-Wheel Locomotive, N. Y. N. H. & H., 554*
- Baltimore & Ohio:
- Annual Report, 487†*
 - Collision near Bellaire, Ohio, 400
 - Equipment Account for each Car and Locomotive, 640†
 - Inspectors of Freight Service, 273
 - Police Force, 105
 - Purchase of Cars of Subsidiary Coal Companies, 663
 - Washington Union Station, 327*
 - Y. M. C. A. Building at Baltimore, 304
- Bangor & Aroostook, Annual Report, 615†*
- Barnes, M. G., 106
- Bascule (See Bridge)
- Bassett, E. M., 1*
- Bearing (See Journal)
- Beef (See Meat Industry)
- Bees Tie up Yard, 21
- Beet Sugar Production, 20
- Belgian State Railroads, 140†
- Revised Signaling Rules, 141†
- Belgium, Purchase of Private Railroad, 709
- Bell, Richard, 536
- Belmont Tunnel, 67*
- Benjamin, Prof. C. H., 185
- Berlin (See Germany)
- Bessemer & Lake Erie:
- Ore Tonnage, July, 211
 - Steel Ties, 366
- Bethlehem Steel Co., Rail Specifications, 310†
- Bezer, Henry, Protection of Track Circuits from Foreign Currents, 567
- Bliss, William, 750*
- Block Signal (See Signal, Block)
- Boiler (See also Locomotive Boiler):
- Efficiency, U. S. Government Tests, 29†, 32
 - Firing Stationary Boilers, 550†
- Bolivia:
- Effect of Railroad Development, 598
- Boston & Albany:
- Adams Express Co., Cessation of Business, 159
 - Boston & Worcester, Wilmarth Locomotive, 357*
 - Improvements, 429, 665
 - Late Trains, 397, 600
 - Withdrawal from Per Diem Agreement, 673†
- Boston & Maine:
- Annual Report, 411†
 - Collision Near Canaan, N. H., 310†, 322
 - Control by N. Y. N. H. & H., 21, 30†, 157, 192†, 209*, 341†, 407†, 411†
 - Floral Prizes, 651*
 - Proposed Sale of Stock Held by New Haven, 735†
 - Withdrawal from Per Diem Agreement, 673†
- Boston & Worcester (See Boston & Albany)
- Bothwell Locomotive, 158*
- Bradley Hammer, Union Pacific Shops, 70*
- Brake (See also Safety Appliances):
- Atlas Slack Adjuster, 354*
 - Damage to Dairy Products Due to Rough Handling of Cars, 759
 - English Derailments, 468, 481†
 - M. C. B. Tests of Brake Shoes, 142†*
 - Maximus, 120*
 - Prussian State R. R.'s, 694
- Brass (See Journal)
- Brazil:
- Americanizing Brazilian Railroads, 598
- Brennan Monorailway, 66*
- Bridge:
- Columbia River, Portland & Seattle, 360*
 - Concrete Arch, Vandalia R. R., 778*
 - Connecticut Avenue, Washington, 294*
 - Lights on Drawbridge, 494*
 - Model of First Large Iron Bridge in Germany, 364*
 - Protection Against Brine from Refrigerator Cars, 782*
 - Quebec, Collapse of, 266*, 282†
 - Rail Bascule, Peoria, Ill., 10*
 - Strength of Fir Stringers, 48
 - Susquehanna River, Collapse, 730
 - Symmetrical Masonry Arch, 90
 - Trestles and Concrete Arches, Jasper-French Lick Line, Southern Ry., 261*
 - Trestle Collapse, Erie & Jersey, 467
 - Trestles, Ft. Dodge, Des Moines & Southern, 680*
 - Viaducts and Bridges, Tidewater and Deepwater Rys., 203*
 - Viaduct, Florida East Coast Extension, 230*
 - Weaver Rail Lock for Drawbridges, 718*
- Bridge and Buildings Supply Men's Assoc., 494
- British (See England; also names of Railroads)
- Brooklyn Rapid Transit Co.:
- Annual Report, 414†
- Buda Fdry. & Mfg. Co.:
- Paulus Track Drill, 76*
 - Switch Stand, 398*
- Buell Automatic Stop and Cab Signal, 274
- Buenos Ayres Western:
- Ten-Wheel Comp. Locomotive, 269*
- Buffalo, Rochester & Pittsburgh:
- Annual Report, 195†*
 - Decapod Locomotive, 151*
 - Engine House at Rochester Burned, 241
 - Rochester-Coburg Car Ferry, 601
- Building Material:
- Fire Test of Concrete Block Building, 22
 - Bundy Car Door Hanger, 728*
 - Burden Iron Co., Switching Locomotive, 560*
 - Burnham, D. H., & Co.; E. & T. H. Station at Evansville, Ind., 59*
- Bush Terminal Co., 78*
- Business Situation (See also Finance; also Traffic):
- Diffusion of R. R. Shares, 342†
 - Five Panics, 769†
 - Gov. Warfield on Southern Situation, 333
 - Gross Earnings Fall Off, 639†
 - Operating Under Normal Conditions, 703†
 - Pres. Mather on R. R. Problem, 443†, 452
 - Price of Material, 105
 - Wages and Retail Prices of Food in 1906, 322
- C**
- Cab Signal (See Signal, Block; also Safety Appliances)
- Canadian Northern:
- Annual Report, 549†*
 - Condition of Equipment, 75
- Canadian Pacific:
- Additional Steamships, 429
 - Annual Report, 376†*

Canadian Pacific (Continued):
Derailment near Caledon, Ont., 303
Standard Time, 40
Supposed Offer for B. & M. Stock Held by
New Haven, 735†
Ten-Wheel Locomotive with Superheater,
619*

Canals:
Dortmund-Ems, Ship Lift, 688*
Illinois & Michigan, Opened, 631
Kaiser Wilhelm, Proposed Enlargement, 504
New York Barge Canal, 106, 186
Panama (See Panama Canal)

Cars:
Account, Repairs, etc., B. & O., 640†
Box, Sun Ning R. R., 325*
Coach, Great Indian Peninsula Ry., 756*
Coach, N. Y. C. & H. R., 235*
Coach, Steel, Union Pac., 530*
Depreciation (See Accounting)
Door Hanger, Bundy, 728*
Electric, Erie, 461*
Electric, West Shore, 69*
Flat, Sun Ning R. R., 325*
Gasolene (See Motor Car)
Heating (See Heating)
High Capacity in Germany, 375†
Lighting (See Lighting)
Montreal Type, Buffalo, 727
Montreal Type, Chic. City Ry., 400, 727
Montreal Type, N. Y. City Ry., 505
Motor (See Motor Car)
Open, Use of Discontinued by Public Service
Corporation, 273
Output in 1907, 767†
Passing of the Pay Car, 91
Pay-as-You-Enter (See Car, Montreal Type)
Rail Motor (See Motor Car)
Refrigerator, Harriman Lines, 374†
Repair Account, B. & O., 640†
Repairs, M. C. B. Interchange Rules, 5*
Roofing, Elaterite, 760
Sleeping, Hygienic Rules in Penna., 365
Steel Passenger, Union Pacific, 530*
Steel, Wagenhals Patent, 234*
Third Class Passenger, Grand Trunk, 135
Truck (See Wheel)
Wheel (See Wheel)

Car, Freight:
Advertisements on, 253†
Harriman Lines, Refrigerator, 374†
Prussla, High Capacity, 375†
Sun Ning R. R., Box and Flat, 325*
Thieves, N. Y. C. & H. R., 48

Car, Passenger:
Chic. City Ry., Montreal Type, 400, 727
Cleaning, Vacuum, 600*
Erie, Electric, 461*
Grand Trunk, Third Class, 135
Great Indian Peninsula Ry., 756*
Life of, 300†
N. Y. C. & H. R., Coach, 235*
N. Y. City Ry., Montreal Type, 505
Un. Pac., All-Steel, 530*
Wagenhals Patent Steel, 234*
West Shore, Electric, 69*

Car Accountants (See Assoc. of Trans. & Car
Accounting Officers)

Car Cleaning (See Car, Passenger)

Car Ferry:
Across the Rhine, Model of Old, 364*
Grand Haven-Milwaukee, 599
Lidgerwood Electric Winch, 50*
Rochester-Coburg, 601

Car Service (See also Freight Claim Assoc.; also
Assoc. of Transportation & Car Accounting
Officers; also Interstate Commerce Com-
mission Rules):
Bribery by San Francisco Consignees, 21
Car Efficiency, Addresses Before Traffic Club
of Chicago, 524, 557
Car Efficiency, Am. Ry. Assoc. Bulletins, 133,
221†, 344†, 467, 553, 584, 627, 791
Car Efficiency in Prosperous Times and Dull,
672†

Car Loading, 458
Car Loading, Cincinnati Chamber of Com-
merce Circular, 49
Car Loading, Cotton, 503
Car Shortage, Cattle Cars, Texas, 49
Car Shortage, Grain, N. Y. State, 1906, 365
Car Shortage, Lumber, Due to Obeying Rule,
133
Car Shortage, Middle West and Northwest,
467
Car Shortage, Northwest, 105, 399, 567
Car Shortage, Pittsburgh and Northwest, 600
Chicago Freight Car Clearing House, 55†
Coal Car Discrimination, St. L. I. M. & S.,
599
Coal Car Distribution, Indiana, 467, 601,
607†
Coal Car Distribution, Ohio, 607†
Demurrage Law, New Jersey, 21, 274
Demurrage on Private Sidings, 482†
Demurrage, N. Y. Pub. Serv. Comm. In-
quiries, 211

Distributing Cars to Shippers, 458
Diversion of Fruit Cars, 185
Diversion Penalty, 600, 607†
Freight Agent and Increased Per Diem, 264
Freight Car Delivery Reports, 727
Home Route Slip Bill, N. C. & St. L., 649*
Individual Car Owners' Assoc., 88†, 160, 365,
631, 648
Interchange, Changes in Rules, 5*
Interchange of Cars in Europe, 751
Moderate Sized Cars Wanted, 273
Nat. Assoc. of Car Service Managers, Recom-
mended Rules, 15
N. Y. Public Service Commission Investiga-
tion, 105, 467
N. Y. State Shippers' Protective Assoc., 241
Operating Under Normal Conditions, 703†
Pittsburgh Car Serv. Assoc., Report on De-
tention, 273
Reciprocal Demurrage and Harriman Lines,
64

Car Service (Continued):
Reciprocal Demurrage in Texas, 365, 600,
696
Sunday Movement on Penna. R. R., 599
Switching Charges, Chicago, 631
Switching Facilities to Competitors, 241
Switching Service, Long Island R. R., 279†
Through Package Cars from Chicago South,
727
Withdrawal from Per Diem Agreement, B.
& A., 673†
Withdrawal from Per Diem Agreement, B.
& M., 673†
Withdrawal from Per Diem Agreement, N.
Y. N. H. & H., 280†, 375†, 397, 504, 567,
673†

Car Shortage (See Car Service)

Cattle:
Fines for Violation of Law 334
Transportation, 75
Cattle Guard, Expanded Metal, 22*
Cement (See Concrete)
Central of Georgia:
Annual Report, 253†*
Sale, 3†
Taxation on Western of Alabama Shares, 633
Central R. R. of New Jersey:
Annual Report, 546†*
Increase in Weight of Freight Trains, 444†
Newark Warehouse, 134, 225*
Charles & Mattson Interurban, Collision, 256,
279†, 535
Chesapeake & Ohio:
Annual Report, 449†*
Increase in Weight of Freight Trains, 444†

Chicago:
Freight Car Clearing House, 55†
Reorganization of Street Railway Companies,
185
Chicago & Alton:
Acquisition by T. St. L. & W., 222†, 233*,
676†*
Annual Report, 380†*
Hes-Murrayville Cut-off, 33
I. C. C. Report, Harriman Investigation, 60
Standard Oil Co. Fined, 153, 535
Trackage Agreement with Wabash, 503
Chicago & Eastern Illinois:
Annual Report, 519†*
Smoke Jack, 500*
Chicago & North-Western:
Annual Report, 347†*
Omaha Freight Terminal, 708*
Ten-Wheel Locomotive, 6*

Chicago, Burlington & Quincy:
Annual Report, 607†, 613†*
Controlled Manual Block Signals, 303
Passengers Asked to Criticize, 23
Chicago City Ry., Montreal Type Cars, 400, 727
Chicago Great Western:
Annual Report, 674†*
Chicago, Indianapolis & Louisville:
Annual Report, 583†*
Chicago Junction Railway:
Locomotive Terminal, 744*
Chicago, Milwaukee & St. Paul:
Annual Report, 313†*
Bal. Comp. Atlantic Locomotive, 596*
Dry Battery for Block Signal Wires, 19
Pacific Extension, 72, 76, 313†, 319*
Vacuum Car Cleaning, 600*

Chicago Pneumatic Tool Co.:
Income Account, 243
Chicago Railway Co., 303
Chicago, Rock Island & Pacific:
Annual Report, 446†, 47†
Automatic Block Signals, 273
Derailment at Norris, Iowa, 303
I. C. C. Report, Harriman Investigation, 60
Merits, 599
Rock Island Employees' Magazine, 75
Chicago Union Traction, 303
Chilean Trans-Andine, 125*

China:
Chinese Eastern Railroad, 238
Journey from Peking to Hankow, 242
Railroad Extension from Peking, 630
Railroad Mileage in French Indo-China, 502
Railroad Planned from Hankow South, 790
Shantung Railroad, 238, 689
Sun Ning Railroad, Box and Flat Cars, 325*
Tientsin to Chin-Kiang Project, 709
Cinder:
Use in Gas Producer, 694
Cincinnati, Hamilton & Dayton:
Annual Report, 517†*
Cincinnati, New Orleans & Texas Pacific:
Annual Report, 706†
Circus Trains, 160
Citizens' Steamboat Co., 392*

Claims:
Claim Department Obstruction, 62, 141†, 150,
197†, 382†, 406†
Freight, South Carolina Law, 599
Fraudulent, 273
Cleveland, Three-Cent Fares, 94
Cleveland, Cincinnati, Chicago & St. Louis:
Beech Grove Locomotive Shops, 655*
Increase in Weight of Freight Trains, 444†
Climax Stock Guard Co., Expanded Metal Cattle
Guard, 22*
Clyde Steamship Co., 392*
Clock (See Standard Time)
Coal (See also Fuel; also Freight Rates; also
Smoke):
Coal Reserves of United States, 38*
Lower Price for English, 729
Shortage on Harriman Lines, 241, 273

College (See Names)
Color Blindness (See Employee)
Colorado & Northwestern:
Subject to Federal Law, 697
Colorado & Southern:
Annual Report, 450†*
Explosion, Boulder, Colo., 185
Strike, 185
Colorado Railroad Commission, 21
Colorado River Break, 105

Concrete (See also Concrete, Reinforced):
Action of Sea Water on, 565
Building Construction, 534
Cement Show in Chicago, 601, 791
Deaths from Collapse of Buildings, 505
Fire Test of Concrete Block Building, 22
Interlocking Tower, N. Y., N. H. & H., 647*

Concrete, Reinforced:
Arches and Abutments, Jasper-French Lick
Line, Southern Ry., 261*
Arch, Vandalla R. R., 775*
Building Construction, 534
Connecticut Avenue, Washington Bridge, 294*
Newark Warehouse, Cent. of N. J., 225*

Congo Railroad, 705†
Connecticut:
Electric Ry. Charters, 222†
Legislation, 157
Legislature and N. Y., N. H. & H., 2†
Consolidated Railway, 192†, 209*

Consolidated Steamship Lines, 392*
Resumption of Individual Management, 535
Construction, New:
C. M. & St. P. Pacific Extension, 72, 76
Double Tracking, D. & R. G., 715*
Florida East Coast Extension, 230*, 429
Idaho, 241
Hes-Murrayville Cut-off of the Alton, 33
Jasper-French Lick, Southern Ry., 261*
Mexico, 366
Railroad Built in United States, Canada and
Mexico in 1907, 768†, 779
St. Paul's Pacific Extension, 313†, 319*
Tacoma-Tenino Line, Nor. Pac., 416*
Tidewater and Deepwater Rys., 203*
Transcontinental Cut-off, Sou. Pac. and A. T.
& S. F., 228*

Unloader for High Fills, Western Pacific, 72*
Conventions (See Names of Associations)
Conveying Machinery (See Hoisting and Convey-
ing)

Cooley, Prof. M. E., 58
Cooling (See Refrigeration; also Ventilation)
Cost (See Business Situation)
Cotter, William, 742*

Cotton:
1907 Crop, 746
Credit (See Finance)
Creosote (See Timber)
Crops (See also Grain):
In 1907, 677
Cuenot, M., Prize for Work on Track Deformation,
792
Cumberland Valley:
Wilmarth Locomotive, 357*
Cunard Line (See Ships)
Curve (See also M. of W.):
Caution Signs, 397

D

Dam, Ashokan, 274
Damages (See Claims)
Decker, M. S., 13*
Deepwater Ry., 203*
Delaware, Lackawanna & Western:
Bergen Hill Tunnel, 67*
Chemical Fire Engine for Coal Mines, 67
Rules for Coal Mine Foremen, 166†
Delayage (See Car Service)
Demurrage (See Car Service)
Denver & Rio Grande:
Annual Report, 349†*
Double Tracking, Eagle River Canyon, 715*
Denver, Northwestern & Pacific:
Highest Railroad Station, 4†
Depreciation of Equipment (See Accounting)
Detroit, Toledo & Ironton:
Annual Report, 614†*
Change in Route, 663
Dickinson Smoke Jack, 501*
Die Work, 318
Differentials (See Freight Rates)
Discipline (See also Employee)
Lehigh Valley Dismissals, 663
Overlaps, 575†
Surprise Tests, Harriman Lines, 133
Surprise Tests, Lehigh Valley, 75
Surprise Tests, Penna. R. R., 727
Dodge & Day, Engineers' and Constructors' Club,
21
Draft Rigging:
For Stub-End Passenger Cars, 143*
M. C. B. Assoc. Inquiry, 730
Drawbridge (See Bridge)
Dredge (See Hydraulic Dredge)
Drill (See Machine Tools)
Dudgeon Jack, Force Pump and Ram, 399*
Dudley Rail Section, 608†*
Dundee & Arbroath Joint Railway, Elliot Junc-
tion Collision, 11
Dynamite (See Explosives)

E

Earnings, Railroad (See corporate names):
Eastern Steamship Co., 392*
Education (See also names of schools, colleges
and universities; also Telegraph):
Apprentices on A. T. & S. F., 333
Eels, Electric, Supply Power, 365
Egyptian State Railroads:
Feed-Water Heater, 152
Electric Railways (See also Electrified Steam):
Block Signals, 253†
Competition, 425*
Competition with P. & R., 49
Connecticut Charters, 222†
Express, N. Y. N. H. & H., 75
Interurban Fares, 586
Legislation, 647
Light Freight Handling, 628
Massachusetts, Certificates of Public Neces-
sity and Convenience, 556
New York Central Electric Lines, 67*
Sparsely Settled Communities, 783
Steam and Trolley Competition in Ohio, 2†
Steam and Trolley in Indiana, 558

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡.]

- Electric Traction** (See also Locomotive, Electric):
 Best System, 282†
 Catenary Trolley, Rochester Division of Erie, 422*, 461*
 Grades and Choice of Motive Power, 41
 Single Phase in Switzerland, 744
 Standard Location for Third Rail, 559*
 Standards, Am. St. & Int. Ry. Eng. Assoc., 511†, 528*
 Steam and Elec. Locomotives, N. Y. R. R. Club Discussion, 415
- Electrified Steam Railroads** (See also Electric Traction):
 Australia, 49
 Austria, 237
 Bavaria, 715
 Erie, Rochester Division, 405†, 422*, 461*
 Italy, 212
 Melbourne Suburban Lines, 49, 703†, 709*
 Newton & Northwestern, 680*
 New York Central (See New York Central & Hudson River)
 N. Y. N. H. & H. (See New York, New Haven & Hartford)
 Southern Pacific, 249†
 Sweden, 238
 Switzerland, 332
 West Shore, 67*
- Empire Bridge Co., Improvements**, 243
- Employee** (See also Wage Increases; also Strike; also Education; also Trade Unions; also Hours of Labor; also Reduction of Time or Forces; also Wage Reductions):
 Arrests for Dishonesty, Mex. Cent., 505
 Arrest of N. Y. Cent. Trainmen for Larceny, 503
 Art of Handling Men, 106
 Brakemen Allowed to Sell Newspapers, 663
 Cigarettes Worse than Whiskey, 22
 Commendation for Heroism, 353, 535
 Conciliation, Grand Trunk, 241
 Conviction of Enginemen and Conductors for Accident Responsibility, 467
 Courteous and Equal Treatment of Customers, 305
 Dismissal of N. Y. City Ry. Conductors for Dishonesty, 631
 Doing Away with the Call Boy, 76
 Employers' Liability Law, 260
 Enginemen and Superheaters, 270
 Engine Running by Unqualified Person, 365
 Examination of Telegraphers, 8
 Excessive Hours of Labor in England, 106
 Firing Stationary Boilers, 550†
 First Aid in Mines, 727
 Freight Agent and Increased Per Diem, 264
 Full Crew, Erie, 759
 Full Crew Law, Texas, 133, 599
 Full Crew Law, Wisconsin, 333
 Heavy Bail for Trainmen Concerned in Collision, 407
 Imprisonment Without Trial for Manslaughter, in Mexico, 365
 Intoxication, Suspended for, P. & R., 273
 Japanese Laborers on Grand Trunk Pacific, 75
 Merits, A. T. & S. F., 106
 Merits, C. R. I. & P., 599
 Motormen, N. Y. City Ry., 467
 Newspaper Library, Sou. Pac., 397
 Passing of the Pay Car, 91
 Pensions, Erie, 759
 Pensions in France, 66
 Piecework, Lake Shore, 133
 Porters as Flagmen, Erie, 599
 Profit Sharing, U. S. Steel Corp., 632
 Recreation Houses, A. T. & S. F., 243
 Rest Requirements in France, 67
 Risks of the Trade, 260
 Rock Island Employees' Magazine, 75
 Rules for D. L. & W. Coal Mine Foremen, 166†
 Station Agent, 343†, 355, 406†
 Station Porters, 674†
 Stereoscopic Tests of Familiarity with Signal Indications, 695
 Third Brakeman Abolished on New York Central, 49
 Trainmen's Responsibility for Accidents, 405†, 772†
 Wages and Retail Prices of Food in 1906, 322
 Wage Scale on Bavarian Railroads, 243
 Waste of Fuel, Power and Time, 692
 Y. M. C. A., B. & O., 304
- Employers' Liability Law** (See Employee)
- Engine** (See also Locomotive; also Turbine):
 Gas, in Street Railway Service, 492
 Wisconsin Gas Engine, 696
- Engineering and Maint. of Way Assoc.** (See Am. Ry. Eng. and Maint. of Way Assoc.)
- Engineering Societies' Libraries**, 568
- England** (See also names of railroads):
 Early Royal Railroad Journeys, 566*
- Enterprise Transportation Co. Receivership**, 631
- Erie Railroad**:
 Annual Report, 482*
 Dividends in Scrip, 311†
 Electric Cars, 461*
 Electrification, Rochester Division, 405†, 422*, 461*
 Loco. Repairs by Baldwin Locomotive Works, 429
 Mallet Compound, 170*, 384*
 Smoke Jack, 500*
 Withdrawal from Central Passenger Assoc., 727
- Eustis, J. E., 41***
- Evansville & Terre Haute**:
 Passenger Station at Evansville, Ind., 59*
- Ewald, F. G., 58**
- Explosives**:
 Colorado & Southern, Boulder, Colo., Explosion, 185
 Mich. Cent., Essex, Ont., Explosion, 185, 535, 577†, 663
 Report of Am. Ry. Assoc. Committee, 561
 Tramps, Explosion by, 241
- Exports**:
 Crops, Forest and Animal Products, Exports and Imports of, in 1907, 677
 During Fiscal Year, 191†
 Grain, Atlantic and Gulf Ports, 135
 Locomotives, 335, 729
 Rails, 274, 729
- Express** (See also names of companies):
 Electric Express Co., N. Y. N. H. & H., 75
 Franks, 49
 Rates Reduced, Missouri, 727, 759
 Southern Pacific Business, 253†
- F**
- Fairbanks, Morse & Co.**:
 Motor Inspection Car, 696*, 792
- Fare** (See Passenger Rates)
- Fast Trains and Runs** (See also Schedule):
 Automobile Speed Records, 4, 730
 Bavarian State Railroad Locomotive, 150
 Liverpool-Chicago, 429
 London to Milwaukee, 335
 Long English Passenger Runs, 243
 Lusitania's Record, 467
 New Record Around the World, 105
 Federal Jurisdiction (See also Passenger Rate Reduction; also Freight Rate Reduction):
 Federal and State Authority, 193†, 467, 694
 Missouri, 303
 Pres. Mather on the Railroad Problem, 443†, 452
 Right to Appeal to Federal Courts, Alabama, 75
 State Control of Fast Interstate Trains, 727, 758
- Feed-Water Heating** (See Locomotive Boiler)
- Felton, S. M., 694***
- Ferry** (See also Car Ferry):
 Brooklyn Service to be Abandoned, 468
- Finance** (See also Accounting):
 Comparison with Panic of 1873, 640†
 Cost of Money, 221†
 Diffusion of Railroad Shares, 342†
 Effect of Financial Disturbances on Labor, 511†
 Erie and Southern Dividends, 311†
 Five Panics, 769†
 Gross Earnings Fall Off, 639†
 Growth of Union Pac., 279†, 286
 I. C. C. Report, Harriman Investigation, 60
 Liquidation, 640†
 Mex. Cent.-Nat. of Mex. Merger, 56†
 New Psychology of Investment, 513†
 New Haven Rights, 575†
 Penalty in Corporate Misdoing, 407†
 Poor's Manual for 1907, 237
 Pres. Hill on Crisis, 631
 Pres. Mather on Railroad Problem, 443†, 452
 Receiverships and Foreclosures in 1907, 768†
 Statistics of U. S. Railroads, I. C. C. Annual Report, 309†, 318
 Stock Issues in Wisconsin, 75
 Strike Charters and Their Warnings, 222†
 Yale Investment Holdings, 479†
- Fire** (See also Explosives):
 Canadian Precaution Rules, 76
 Protection in Altoona Yards, 304
- Firebox** (See Locomotive Firebox)
- Fire Engine, D. L. & W. Coal Mines, 67**
- Fireman** (See Employee)
- Flange** (See Wheel)
- Flather, Mark, Planer Co., New Shaper, 568***
- Florida East Coast**:
 Key West Extension, 230*, 429
- Foreclosures**:
 Year's Record, 768†
- Fort Dodge, Des Moines & Southern, 680***
- France**:
 Results of Railroad Operation in 1906, 313†
- Freight** (See also Car Service):
 Car Load Freight Unloading Charges, N. Y. N. H. & H., 759
 Claims (See Claims)
 Electric Lines, Light Freight Handling, 628
 Explosive and Inflammable, Rules for Handling, 75
 Free Storage, 90-Day, Wis. Cent., 467
 Loss and Damage to, 141†, 150, 382†
 National Industrial Traffic League, 273
 Rates (See Freight Rates)
 Shipment of Harvesting Machinery, 105
 Uniform Bill of Lading, 75, 323, 467, 503
- Freight Claim Association**:
 Annual Meeting, 9
- Freight House**:
 Newark Warehouse, Cent. of N. J., 134, 225*
- Freight Rates** (See also Freight Rate Reduction; also Interstate Commerce Commission Rulings):
 Arkansas, Flat Cotton Rate, 567
 British, Inquiry, 632
 Coal, Union Pacific, 185
 Coal, Wisconsin, 159
 Discrimination on Cattle, Union Pac., 631
 Discrimination, Windsor and Detroit, 75
 Grain, East from Missouri River, 105
 Illegal, Oil, N. Y. Cent. and Penn. R. R., 185
 Illegal, Standard Oil, New York Central and Penna. R. R., 303
 Lumber in Northwest, 695, 759
- Freight Rates** (Continued):
 National Industrial League, 185, 310†
 N. Y. C. & H. R. Fined, Standard Oil Co. Shipment, 49
 N. Y. N. H. & H., Through Rates Via Jersey City, 673†, 704†, 727, 759
 Ocean Rates on Grain, 749
 Organization of Shippers, 310†, 315†
 Publication of Changes in Classification, 599
 Rail and Water Tariffs, 631
 Rebates, A. T. & S. F., 75, 467, 601
 Rebates, Chic. St. P. M. & O., 241
 Rebates, Gr. Nor., 365
 Rebates, Lehigh Valley and N. Y. C. & St. L., 159
 Rebates, South Manchurian R. R., 696
 Rebates, Standard Oil Co. Fined, 153, 535
 Rebates, Wisconsin, Central, 185
 Steamship, Boston and New York, 133
 Uniform Classification, 313†, 429
- Freight Rates Increased**:
 Canadian Pacific, 663
 Gr. Nor. and Nor. Pac., on Lumber, 105
 Lumber, 567
 Mexico, 535
 New York-Chicago, 663
- Freight Rate Reduction** (See also Interstate Commerce Commission Rulings):
 Alabama, 185, 193†, 211, 397, 503, 663, 631, 727
 Arkansas, 365
 Coal, in Northwest, 105
 Coal, Union Pac., 695
 Georgia, 311†
 Italian State Railroads, 13
 Minnesota, 303, 345†
 Nebraska, 211, 303, 365, 791
 Nevada, 159
 North Carolina, 193†
 Oklahoma, 696
 Recent State Laws, 396
 State Legislation in 1907, 168
 Wisconsin, 105, 185
- Freight Traffic** (See also Traffic):
 Growth in Five Years, 341†, 373†
 Penna. Railroad in May, 49
 Relation Between Traffic and Mileage, 760
- Freight Yards** (See Yards and Terminals)
- Friedstedt, L. P., Purchase of York Rolling Process Patents, 791**
- Fuel** (See also Coal):
 A. T. & S. F. Fuel Department, 504
 Best for Blacksmith Shop, 357
 Coke on B. & O. Locomotives, 599
 Consumption, Gasolene Motor Cars, 116†
 Waste of Fuel, Power and Time, 692
 Furnace, Oil, Portable, 335*
- G**
- Gage**:
 Spain, 210
 Ganz Motor Car, Intercolonial Ry., 356*
- Gas** (See also Fuel; also Engine):
 Locomotive Cinders for Gas Producer, 694
 United States Gas Machine, 334*
- Gasolene Car** (See Motor Car)
- General Electric Co.**:
 Electric Locomotive, Bush Terminal, 788*
 Top-Mast Motor Signal, 63*
- Gen. Ry. Sig. Co.**:
 Automatic Block Signals, Phila. & Western, 621*
- Rochester Shops, 748***
- Georgia Railroad**:
 Ordered to Maintain Roadway, 599
- Georgia Railroad Commission**:
 Change in Members, 241
 Enlargement and More Power, 270
 Orders, 273
- Germany**:
 Berlin Passenger Traffic, 560
 Berlin, Underground Elec. Ry., 531, 742
 Duchy of Oldenburg Railroads, Locomotive, 273*
 Duchy of Oldenburg R. R.'s, Hoarman Steel Tie, 352*
 Electrification in Bavaria, 715
 Münster Schlucht Elec. Ry., 661*
 Railroad Earnings, 124
 Railroad Museum, 362*
 Stahlwerks-Verband Steel Prices, 575†
 Ticket Tax, 62
 Wage Scale on Bavarian Railroads, 243
- Gold Car Heating & Lighting Co.**:
 Temperature Regulator, 536*
- Goldschmidt Thermit Co., Uses of Thermit, 134*, 274**
- Goss, W. F. M., 55†**
- Government Ownership**:
 American State Owned Railroad, 122
 Belgium, 709
 Costly Mistake of State Railroads, 140†
 Logic of the Situation, 107
 Mex. Cent.-Nat. of Mex. Merger, 56†
 Secretary Taft on, 191†, 200
- Government Rate Regulation** (See also Freight Rates; Interstate Commerce Commission Rulings; Federal Jurisdiction):
 Rate Law (See Interstate Commerce Law)
 Secretary Taft on, 191†, 200
 State Legislation vs. Federal, 505*
- Grade Separation**:
 Chicago, 535
 Long Island Railroad, 185
 New York State, 185
 Vandalla at Indianapolis, 774*

- Grain (See also Freight Rates; also Interstate Commerce Commission Rulings):
 Crop in 1907, 502
 Exports, Atlantic and Gulf Ports, 135
 Ocean Rates, 749
 Railroad Elevators in Wisconsin Open to Public, 75
 Shipments in Russia, 584
 Shipment of Harvesting Machinery, 105
 Winter Wheat Crop, 790
- Grand Trunk:
 Car Ferry, Grand Haven to Milwaukee, 599
 Rochester-Coburg Car Ferry, 601
 Stratford, Ont., Shops, 726*
 Third Class Passenger Cars, 135
- Grand Trunk Pacific:
 Cost of Eastern Part, 397
- Granitoid Construction Co., Fire Test of Concrete Block Building, 22
- Great Britain (See England; also names of railroads)
- Great Indian Peninsula Ry., Passenger Cars, 756*
- Great Northern:
 Annual Report, 607†, 610†*
 Northern Securities Co., 279†, 286
- Great Western of England:
 Audible Distant Signals, 584*
 Four Cyl. Simple Ten-Wheel Locomotive, 373†, 390*
- Greece:
 Railroad Mileage, 651
- Griffin Double Tread Cast Iron Car Wheel, 558*
- Gulick-Henderson & Co., 333
- Gyroscope, Brennan Monorailway, 66*
- H**
- Haarman Steel Tie, 352†*
- Hall Signal Co.:
 Electro-Mechanical Slot, 95*
- Hall, Walter P., 759
- Hannoversche Maschinenbau-Actien-Gesellschaft, Eight-Wheel Locomotive, 73*
- Harriman Lines (See also separate companies):
 Car Service Conditions, 64
 I. C. C. Investigation Report, 60
 Reciprocal Demurrage and, 64
 Refrigerator Cars, 374†
 Salt Lake City Union Station, Yards and Terminal, 33*, 88†, 116†
- Harrington Staybolt Threading and Reducing Machine, 504*
- Heating:
 Gold Temperature Regulator, 536*
- Hepburn Law (See Interstate Commerce Law)
- Hill Lines (See also separate companies):
 Results of Operation in 1907, 607†
- History (See also subjects and names of companies):
 Some Early Royal Railroad Journeys, 566*
- Hocking Valley:
 Annual Report, 379†*
- Holsting and Conveying:
 Crane, 10-Ton, Readville Shops, N. Y. N. H. & H., 684*
- Lidgerwood Winch for Car Ferries, 50*
- Yale & Towne Triplex Hoist, 71*, 134
- Holmes, F. L., Bundy Car Door Hanger, 728*
- Holmes' Metallic Packing, Test of, 134
- Honduras:
 Railroad Building, 695
- Hose Coupling:
 American Tender, 242*
- Thor, 160*
- Hospital, Sou. Pac. at San Francisco, 89*
- Hostility (See Pub. Rel. of Railroads)
- Hotchkiss, Blue & Co., Rogers Journal Box, 212*
- Hours of Labor (See also Reduction of Time or Forces):
 Connecticut, 133
 English Roads, 244, 781
 Federal 16-Hour Law, 631
 Grand Trunk, 467
 Missouri, 211, 365
 New York State, 85†, 94, 397, 429, 535
 P. & L. E., 211
 State Legislation in 1907, 168
 Texas, 133
 Wisconsin, 75
- Hudson & Manhattan, 67*, 791
- Hudson Navigation Co., 392*
- Hungarian State Railroads:
 Salaries on, 12
- Hydraulic Dredge:
 Atlantic Equipment Co., 623*
- Hydraulic Ram, Dudgeon, 399*
- I**
- Idaho:
 Railroad Building in, 241
- Illinois Central:
 Annual Report, 413†*
- Illinois Tunnel Co., 243
- Immigration:
 Southern California, 365
- India (See also names of roads):
 Railroad Organization, 633
 Traffic Department, 3†
- Indiana:
 Steam and Trolley in, 558
- Indiana Railroad Commission:
 Coal Car Distribution, 467, 601, 607†
- Individual Car Owners' Assoc., 88†, 160, 365, 631, 648
- Injunction (See Legislation)
- Interborough Rapid Transit Co.:
 Brooklyn Extension, 67*, 467, 667
 Solenoid Signals, Manhattan Elevated, 321*
- Interchange (See Car Service)
- Intercolonial:
 Ganz Motor Car, 356*
- Interlocking (See Signals, Interlocking)
- International of Mexico:
 History, 154*
- Interoceanic of Mexico:
 History, 154*
- Interstate Commerce Commission (See also Interstate Commerce Law; also Freight Rates):
 Accident Bulletins: No. 23, 116; No. 24, 588
 Accounting, Revision of, 36†, 352†, 406†, 418, 503
 Annual Report, 309†, 318, 341†
 Block Signal and Train Control Board, 58
 Harriman Investigation Report, 60
 Uniform Bill of Lading, 75, 323, 467, 503
 Uniform Classification, 313†, 429
- Interstate Commerce Commission Rulings:
 Atchison, Kan., Elevator Allowances, 51
 Basing Point System, 135
 Brick Classification, 23
 Chicago Live Stock Delivery Charge, 730
 Coal Car Distribution in Ohio, 142†, 161
 Coal Rate Upheld, 633
 Coal Rates on Burlington, 468
 Coal Rates to Dallas, Tex., 23
 Commodity Rates to Amarillo, Tex., 52
 Cotton Compression Privileges, 78, 135
 Cotton Goods, Augusta-New York Rate, 135
 Cotton Rates to Pacific, 24
 Cotton Seed Rates Reduced, 730
 Cotton Waste, Augusta-New York Rate, 135
 Dallas, Tex., Rates Upheld, 468
 Demurrage on Private Sidings, 482†
 Distribution of Cars to Shippers, 761
 Embargoes Against Individuals, 77
 Equal Facilities for Negroes, 51
 Express Rates, 633
 Georgia Railroad Commission vs. I. C. C., 505
 Grain Rates from Kansas, 107
 Grain Rates, Oklahoma to Gulf, 135
 Higher Rates for Fast Service, 186
 Industrial Road Connections, 77
 Joint Rates Need Not Be Made, 633
 Low Rates from Crowder City, 761
 Minimum Railroad Rates, 761
 Moultrie, Ga., Rates, 24
 No Coast Terminal Rates for Santa Barbara, 697
 Paper, Railroad Rates, 505
 Parcels Express for Suburban Patrons, 107
 Penalty for Misrouting, 761
 Private Sidings, 728, 761
 Privileges in Transit Must Be Published, 23
 Published Rates Are Laws, 186
 Rates on Butter and Eggs, 633
 Rates on Stoves, East St. Louis, 77
 Rates to New Mexico Reduced, 107
 Relation Between Wheat and Flour Rates, 51
 Reparation for Increase in Grain Rates, 506
 St. Louis-Little Rock Rates, 792
 Steamship Rates to Augusta, Ga., and Suburban Mills, 160
 Switching Charges, 633
 Territorial Classification Upheld, 24
 Through Railroad and Steamship Rates, 77
 Through Rate Divided, 698
 Through Rate Reduced to Sum of Locals, 77, 698
 Time Limit for Presenting Claims, 792
 Toll by Coast Line Route to San Francisco, 78
 Transcontinental Rates, 761
 Transfer Charges Must Be Published, 730
 Violations Must Be Substantial, Not Technical, 633
 Weights of Shipments, 77
 Wheat Rate, Oklahoma to Texas, Reduced, 77
- Interstate Commerce Law:
 Interpretations, Sou. Pac., 663
 Pres. Mather on the Railroad Problem, 443†, 452
 Secretary Taft on, 191†, 200
 Sou. Pac. Indicted for Violation, 397
- Interurban Lines (See Electric Railway)
- Intoxicants (See Employee)
- Iowa Central, 222†, 233*
- Iowa State College:
 New Assistant Professor, 367
- Iron and Steel (See also Rail):
 Defects and Failures of Steel Tires, 479†, 495*, 532*, 543†
 Investigation of Steel and Structural Members, Watertown Arsenal, 561
 Pig Iron Furnaces in Dull Times, 792
 Protecting Steel Bridges Against Brine, 732*
- Vanadium Steel, 325
- Irrigation in Sou. Pac. Territory, 632
- Isthmian Canal Commission (See also Panama Canal):
 Annual Report, 697
- Italian State Railroads:
 Four-Cyl. Bal. Comp. Locomotive, 128*
 Present Condition, 4†
 Rate Reduction and Increased Wages, 13
 Reorganization, 66
 Steamboat Service, 150
- Italy:
 Electrification of Steam Railroads, 212
- J**
- Jack:
 Dudgeon Universal, 399*
- Jackson, James F., 68†*
- Japan:
 Japanese Laborers on Grand Trunk Pacific, 75
 Railroad Mileage, 686
 Jefcoate Automatic Stop, 160
 Jeffrey Mfg. Co., Mine Locomotives, 664*
- Journal:
 Markel Driving Box Brass, 654*
 Rogers Journal Box with Wick Oiling, 212*
 Sorenson Journal Box, 728*
- Joy Line, Bought by U. S. Transportation Co., 567
- K**
- Kansas City Ry. Fdry. Co., Rogers Journal Box, 212*
- Kansas City Southern:
 Annual Report, 577†*
 Year's Earnings, 113†
- Keep, C. H., 41*
- Kelvin, Lord, 773*
- Korea, Street Railway in, 666
- L**
- Labor (See Trade Unions; also Employee)
- Lake Erie & Western:
 Smoke Jack, 501*
- Lake Shore & Michigan Southern:
 Pacific Locomotive, 258*
- Ohio Trolley Competition, 2†
- Lamp (See Signal; also Lighting)
- Legal Decisions (See also Interstate Commerce Commission; also Legislation):
 Clashes Between Federal and State Authority, 193†
 Colo. & Nor-western Subject to Federal Law, 697
 Freight Claims, South Carolina Law, 599
 Gas Rates, New York, 663
 Monthly Summaries: June, 1907, 37; July, 320; Aug., 551
 North Carolina Rate Law, 114†
 Pennsylvania Two-Cent Law Unconstitutional, 302
 Right to Appeal to Federal Courts, 75
 State Control of Fast Interstate Trains, 727, 758
 Taxation on Cent. of Ga.'s Holdings in Western of Alabama, 633
 Ticket Scalping, 773
 Wisconsin Law on Closing Upper Berth, 759, 773
- Legislation (See also Government Rate Regulation; also Passenger Rate Reduction; also Freight Rate Reduction; also Employee; also Hours of Labor):
 Alabama, 49, 193†, 211, 304, 467, 503, 601, 663, 694, 729
 Arkansas, Transfer of Suits to Federal Court, 159
 Clashes Between Federal and State Authority, 193†
 Competition and Confiscation Under Anti-Trust Law, 544†
 Congress in Session, 791
 Connecticut, 157
 Electric Railway, 647
 Georgia, 270, 304, 760
 Gov. Warfield on Southern Situation, 333
 Louisville Board of Trade Resolutions, 1†
 Massachusetts, 503
 New Haven-Boston & Maine Anti-Merger Law, 304
 North Carolina, 85†, 114†, 193†, 304
 Virginia, 193†, 211
 Pennsylvania, 224
 Oklahoma, 405†
 Politics and Railroads, 405†
 President Johnson on, 304
 Pres. Mather on Railroad Problem, 443†, 452
 Railroad Regulation Movement, 398
 Rate Law (See Interstate Commerce Law):
 State, in 1907, 168
 State, Recent, 396
 State vs. Federal, 505*
 Study in Railroad Baiting, 673†
 Sunday Law in Massachusetts, 503
 Taking Railroad Property Without Due Process of Law, 114†
- Lehigh & Hudson River:
 Annual Report, 740†*
- Lehigh Valley:
 Annual Report, 196†*, 217
 Dismissals of Employees, 663
 Rebates, 159
- Lidgerwood Electric Winch for Car Ferries, 50*
- Lighting:
 Efficient Illumination of Passenger Cars, 374†
 Locomotive Headlights, Texas, 133
- Live Stock (See Cattle)
- Loading (See Car Service)
- Local Freight Agents' Assoc. (See Am. Assoc. of Loc. Frt. Agts. Assoc.)
- Loco. Mach. Co. of Montreal, Ten-Wheeler for Can. Pac., 619*
- Locomotive:
 Account, Repairs, etc., B. & O., 640†
 American (See Locomotive, Eight-Wheel)
 Atlantic, Bal. Comp., C. M. & St. P., 596*
 Bothwell, 158*
 Comp., Bal., Atlantic, C. M. & St. P., 596*
 Comp., Bavarian State Railroad's, 150
 Comp., Buenos Ayres Western, 269*
 Comp., Duchy of Oldenburg Railroad's, 73*
 Comp., Four-Cyl. Bal., Ital. State R.R.'s, 128*
 Comp., Mallet, Erie, 170*
 Comp., Two-Cyl. Prairie, M. St. P. & S. Sta. M., 119*
 Consolidation, South Manchuria, 690*
 Decapod, B. R. & P., 151*
 Depreciation (See Accounting)
 Double Eng., with Steam Desiccator, Northern of France, 522*
 Early, P. & R., 97*
 Early, Penna. R. R., 719*
 Eight-Wheel, Bothwell, 158*
 Eight-Wheel, Duchy of Oldenburg R. R.'s, 73*
 Eight-Wheel, Penna. R. R., 719*
 Exports of, 336, 729
 Four-Cyl. Simple, Great Western Ry., 373†, 390*
 Frame (See Locomotive Frame)
 Geared, Bothwell, 158*
 Headlight (See Lighting)
 Hot-Water Locomotives for Street Ry., 709
 Increase in Weight, 93*
 Inspection, South Manchurian, 690*
 Mallet Comp., Erie, 170*, 384*
 Output in 1907, 767†
 Pacific, L. S. & M. S., 258*
 Pacific, N. Y. N. H. & H., 554*
 Pacific, Penna. Lines West, 233*
 Prairie, Four-Cyl. Bal. Comp., Ital. State R. R.'s, 128*
 Prairie, M. St. P. & S. Sta. M., 119*
 Repair, 576†, 594*
 Six-Wheel Tank, Midland Ry., 644*
 Stevenson Early Locomotives, 224†*
 Suburban Tank, P. & R., 104*
 Switching, Burden Iron Co., 560*

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡.]

- Locomotive (Continued):**
 Tank, Early German, 363*
 Tank, Midland Ry., 644*
 Ten-Wheel, Buenos Ayres Western, 269*
 Ten-Wheel, Can. Pac., 619*
 Ten-Wheel, C. & N.W., 6*
 Ten-Wheel, Great Western Ry., 373†, 390*
 Ten-Wheeler, N. Y. N. H. & H., 554*
 Ten-Wheel, Penna. R. R., 719*
 Wilmarth, 357*, 382†, 490†
- Locomotive, Electric:**
 Bush Terminal, 788*
 Mine, Jeffrey, 664*
 N. Y. N. H. & H., 182*
 N. Y. R. R. Club Discussion, 341†
 Penna. R. R., 327*, 624*, 707†
 Which is Best System? 282†
- Locomotive, Freight:**
 Bothwell, 158*
 Buenos Ayres Western, Ten-Wheel Comp., 269*
 B. K. & P., Decapod, 151*
 Burden Iron Co., Switching, 560*
 C. & N.W., Ten-Wheel, 6*
 Erie, Mallet Comp., 170*, 384*
 Penna. R. R., Early, 719*
 P. & R., Early, 97*
 South Manchurian, Consolidation, 690*
- Locomotive, Passenger:**
 Bavarian State R. R.'s, Four-Cyl. Comp., 150
 Buenos Ayres Western, Ten-Wheel Comp., 269*
 Can. Pac., Ten-Wheel, 619*
 C. M. & St. P., Atlantic Bal. Comp., 596*
 Duchy of Oldenburg R. R.'s, Eight-Wheel, 73*
 Great Western, Ten-Wheel, 373†, 390*
 Ital. State R. R.'s, Four-Cyl. Bal. Comp., 128*
 L. S. & M. S., Pacific, 258*
 Midland Ry. Tank, 644*
 M. St. P. & S. Ste. M., 119*
 N. Y. N. H. & H., Pacific, 554*
 N. Y. N. H. & H., Ten-Wheel, 554*
 Northern of France, Double End, with Steam Desiccator, 522*
 Penna. R. R., Early, 719*
 Penna. Lines West, Pacific, 238*
 P. & R., Early, 97*
 P. & R., Suburban Tank, 104*
 South Manchurian, Inspection, 690*
- Locomotive Boiler:**
 British Comment on Hot-Water Testing, 106
 Feed-Water Heater, Egyptian State R. R.'s, 152
 Inspection, N. Y. Pub. Serv. Comn. Rules, 275, 280†, 295
 Manganese Bronze Staybolts, 152
 Modern Method of Washing, 421
 Washing Out and Filling with Hot Water, 265
- Locomotive Cylinder:**
 Pistons and Valves for Superheated Steam, 652*
 Simple and Comp. Locomotives of Equal Power 790
- Locomotive Firebox:**
 Brick Arch, 255†
 Combustion Chamber, 258*
- Locomotive Frame:**
 Pacific Locomotive, Penna. Lines West, 240*
 Thermit Welding, 134* 274
- Locomotive Performance (See also Fast Trains and Runs):**
 Increased Weight of Freight Trains, 31†, 444†
 Relation Between Condition of Motive Power and Its Repair, 576†, 594*
 Waste of Fuel, Power and Time, 692
- Locomotive Superheater (See Superheater)**
Locomotive Valve (See Valve and Valve Gear)
London & North-Western:
 Derailment at Shrewsbury, 468, 481†
Long Island Railroad:
 Crossing Accident, Officers Arrested, 159
 Rail Lock for Drawbridges, 718*
 Switching Service, 279†
- Louisiana Railroad Commission:**
 Accident Reports, 631
 Order to Better Equipment, 159
- Louisville & Nashville:**
 Annual Report, 579†
 Services to Industrials, 664
- Louisville Board of Trade Resolutions, 1†**
 Lumber (See also Timber; also Ties):
 Increased Cost, 324*
 Production, U. S., 392
- M**
- Machine Tools:**
 Bradley Hammers, Union Pacific Shops, 70*
 Flather Shaper, 568*
 Paulus Track Drill, 76*
 Pneumatic Tube and Pipe Cutter, 122*
 Portable Vise Stand, 666*
 Staybolt Threading and Reducing Machine, 504*
- Maffei, J. A., Express Locomotive for Bavarian State R. R.'s, 150**
- Mall:**
 Fines; Car Space Used by Post Office, 133
 Railroads Fined for Unsatisfactory Handling, 365
 Weighing of, 397
- Maine Central:**
 Annual Report, 412†*
- Maintenance of Way (See also Rail):**
 Controlling Earth Slides, 724
 Curve and Switch Tables, 552*, 772†
 Holding Power of Railroad Spikes, 143*
 Keeping Track Free of Vegetation, 651
- Maintenance of Way (Continued):**
 Keeping Track in Line and Surface in Winter, 622
 Salt Roadbed, Western Pacific, 242
 Test Track, Prussian State R. R.'s, 184*
 Track Work in New York Cent. Change to Right-Hand Running, 223†, 227, 296
 Wheel Pressures on Curves, 198†*, 255†, 309†, 317*, 576†, 591*
 Wrecking Outfits, 749
- Maintenance of Way Association (See Am. Ry. Engineering and Maint. of Way Assoc.)**
Maint. of Way Master Painters' Assoc., Convention, 649
 Malay Railroad Projects, 688
 Mallory Steamship Co., 392*
 Maltbie, M. R., 41*
 Manhattan Elevated (See Interborough Rapid Transit)
 Manila Railway, 64
 Mansfield Guard-Rail Clamp and Tie Plate, 720*
 Markel Driving Box Brass, 654*
 Masonry (See also Bridge; also Concrete):
 Symmetrical Masonry Arches, 90, 231
- Massachusetts:**
 B. & M.—N. Y. N. H. & H. Anti-Merger Law, 30†
 Public School Pupils at Half Price, 626
 Street Ry. Results for 1907, 755
Massachusetts Railroad Commission:
 Certificates of Public Necessity and Convenience, 556
 Retirement of J. F. Jackson, 687*
Master Car Builders' Association:
 Advertisements on Freight Cars, 253†
 Changes in Rules of Interchange, 5*
 Convention Plans, 333, 505
 Draft Rigging Inquiry, 730
 Wheel Sections, 444†
Master Mechanics' Assoc. (See Am. Ry. M. M. Assoc.)
 Maximus Brake, 120*
 McCarroll, William, 41*
 McGill University, Railroad Department, 400
 McKinley Interurban Syndicate, Bascule Bridge, 10*
 Meat Industry, Report on, Dept. of Agriculture, 505
 Merchants' Despatch Transportation Co., 567, 599
 Metropolitan Steamship Co., 392*
 Yale and Harvard in Service, 365
 Metropolitan Underground (London) Collision, 535
- Mexican Central:**
 Abolition of Second Class Fares and Third Class Cars, 159
 Annual Report, 518†*
 Collision Near Aguascalientes, 366
 Dishonest Employees, 505
 History and Pacific Coast Extension, 154*
 Merger with National of Mexico, 56†
 Roadway and Station Construction, 270*
- Mexican Railway, 154***
- Mexico:**
 Imprisonment of R. R. Employees Without Trial for Manslaughter, 365
 Mex. Cent.—Nat. of Mex. Merger, 56†
 New Railroad Building, 366
 Railroads of, 42, 154*, 233, 270*, 331
- Michigan Central:**
 Detroit River Tunnel, 420*, 663
 Essex, Ont., Explosion, 185, 535, 577†, 663
 Middletown Car Works:
 Box and Flat Cars, Sun Ning R. R., 325*
 Midland Railway (England), Six-Wheel Tank Locomotive, 644*
- Mileage Built in 1907, 768†, 779**
Mileage Ticket (See Passenger Rate Reduction)
 Mine (See also Employee):
 First Aid to the Injured, 727
 Minneapolis & St. Louis, 222†, 233*
 Minn., St. P. & S. S. M.:
 Annual Report, 378†*
 Prairie Locomotive, 119*
- Missouri:**
 Transfer of Suits to Federal Courts, 467
- Miss., Kan. & Tex.:**
 Annual Report, 345†*
- Missouri Pacific:**
 Annual Report, 547†*
 Branch Line Trains Taken Off, 759
 Failure to Provide Train Service, 159
 Speed Limit, 159
 Speed Reduction Ordered, 105
 Unsafe Track Alleged, 695
- Mohawk Valley Co., 67***
Monorailway, Brennan, 66*
 Montana R. R. Comm., Attitude, 468
Motor Car (See also Automobile):
 Fairbanks, Morse Inspection, 696*, 792
 Gans, Intercolonial Ry., 356*
 Gasolene, Fuel Consumption, 116†
 Gasolene, Union Pac., 199*, 242
 Multhead Station Indicator, 665*
 Münster-Schlucht Elec. Ry., 661*
 Museum, Railroad, Berlin, 362*
- N**
- Nashville, Chattanooga & St. Louis:**
 Annual Report, 489†*
 Home Route Ship Bill, 649*
 Western & Atlantic, History, 122
- National Assoc. of Car Service Managers, Annual Convention and Uniform Car Service Rules, 15**
National Assoc. of Ry. Commissioners:
 Annual Convention, 429, 466, 468
National Industrial Traffic League, 185, 310†
- National R. R. of Mexico:**
 Abolition of Second Class Fares and Third Class Cars, 159
 History, 154*
 Merger with Mexican Central, 56†
 National Railways of Mexico, 56†
 National Transcontinental (See Grand Trunk Pacific)
 New Britain Machine Co., Portable Vise Stand, 666*
 New England Investment & Security Co., 192†, 206*
 New Jersey R. R. Comm., 21
 New York & Albany Transportation Co., 468
 N. Y. & Cuba Mail Steamship Co., 392*
 New York & Porto Rico Steamship Co., 392*
 New York Car Wheel Co., Double Tread Cast Iron Car Wheel, 558*
New York Central & Hudson River:
 Arrests of Trainmen for Larceny, 503
 Curve Mechanics and Woodlawn Wreck, 198†*, 255†, 309†
 Early Locomotives, 224†*
 Efficient Operation, 502
 Electric Lines, 67*
 Freight Car Policeman, 48
 Freight House at Kingston Burned, 211
 Freight Train Statistics, 31†
 General Manager Tried for Responsibility for Woodlawn Wreck, 264, 727, 735†
 Grand Central Station Porters, 674†
 Illegal Freight Rates, 303
 Illegal Rates on Oil, 185
 Merchants' Despatch Transportation Co., 567, 599
 New Haven's Use of Electric Power, 75
 Passenger Coach, 235*
 Passenger Rates, Hudson Division, 759
 Resignation of Mr. Wilgus, 55†
 Right-Hand Running in Electric Zone, 223†, 227, 296
 Signals, All Electric, 223†, 227, 296
 Standard Oil Rebates, 49
 Terminal Improvement, 67*
 Third Brakeman Abolished, 49
 Track Work in Change to Right-Hand Running, 296
 Twentieth Century Limited, Slower Schedule, 727
- New York, Chicago & St. Louis:**
 Ohio Trolley Competition, 2†
 Rebates, 159
- New York City Ry.:**
 Horse Cars, 160
 Montreal Type Cars, 505
- New York City:**
 Brooklyn Ferry Service to be Abandoned, 468
 Pennsylvania R. R. Extension, 44*
 Rapid Transit Conditions, 328*
 Tunneling Operations, 67*
- New York, New Haven & Hartford (See also Consolidated Ry.):**
 Annual Report, 407†*, 437
 Beginning of Electric Operation, 105
 Boston & Maine Control, 21, 30†, 157, 192†, 209*, 341†, 407†*, 411†
 Concrete Interlocking Tower, 647*
 Connecticut Legislation, 157
 Direct Taxation, 373†
 Electric Express Co., 75
 Electric Operation, 159
 Electric Ry. Interests, 192†, 209*
 Electrification, 165†, 177*
 Ice Station Fire, 21
 New York, Ontario & Western Acquisition, 2†
 Obelisk Shipment, 236*
 Offer for B. & M. Control, 735†
 Pacific Locomotive, 554*
 Readville Locomotive Shops, 682*
 Reduction of Forces, 511†
 Rights, 575†
 Steamship Line, Freight, New York and Boston, 791
 Stockholders, Number of, 335
 Suspended Signals, 646*
 Ten-Wheel Locomotive, 544*
 Through Rates via Jersey City, 673†, 704†, 727, 759
 Trolley on Highland Division, 760
 Use of New York Central Electric Power, 75
 Withdrawal from Per Diem Agreement, 280†, 375†, 397, 504, 567, 673†
 Yale-Princeton Football Traffic, 671†, 692
- N. Y., Ont. & West.:**
 Annual Report, 582†*
- Acquisition by N. Y. N. H. & H., 2†**
- N. Y. Railroad Club:**
 Entertainment, 791
- New York Rapid Transit Commission, 23**
- N. Y. Pub. Serv. Comm.:**
 Accident Reports to, 273, 345†, 355*
 Boiler Inspection, 275, 280†, 295
 Capitalization Rules, 211
 Car Service Investigation, 105, 467
 Estimated 1908 Expenses of Commission, 759
 Members, 1†, 13*, 23, 41*
 Mileage, Two-Cent, 211, 567, 665, 671†
 Officers, 50
 Orders to Report Improvements, Car Shortage and Embargoes, 601, 608†
- New York Subway (See Interborough Rapid Transit)**
New York University, Railroad Course, 160
New Zealand Railroad, 749
Newton & Northwestern, 680*
Nitro Glycerine (See Explosives)

Noise Nuisance, 280†, 304
 Norfolk & Western:
 Annual Report, 350†
 North Carolina:
 Legislation, 85†, 114†, 193†, 304
 North Dakota:
 Northwestern Ry. (England), Maximus Brake, 120*
 Northern of France:
 Double End Locomotive with Steam Descender, 522*
 Manganese Bronze Staybolts, 152
 Northern Pacific:
 Annual Report, 607†, 612†
 Northern Securities Co., 279†, 286
 Smoke Jack, 500*
 Tocoma-Tenino Line, 416*
 Valuation, 9
 Northern Securities Co., 279†, 286
 Northwestern Pacific:
 I. C. C. Report, Harriman Investigation, 60

O

Obelisk from Connecticut to Sault St. Marie, 236*
 Officer (See also Organization; also Public, The, Railroads' Relations with):
 Art of Handling Men, 106
 Complimentary Tickets Out of Salary, 255†
 A Few Phases of Railroad Science, 315†
 Fuel Supervisor, A. T. & S. F., 504
 Inspectors of Freight Service, 273
 Paying for Complimentary Tickets, 255†
 Stodious Officers, Resignation of Mr. Wilgus, 55†
 Salaries on Hungarian State Railroads, 12
 Traffic Council, Ital. State R. R.'s, 66
 Ohio:
 Steam and Trolley Competition, 2†
 Ohm, August: E. & T. H. Station at Evansville, Ind., 59*
 Oil (See Fuel; also Lubrication)
 Oil Furnace, Portable, 335*
 Oklahoma:
 Constitution, 631, 729
 Legislation, 405†
 Oklahoma Railroad Commission, 663, 696
 Oneida Construction Co., West Shore Electrification, 67*
 Oregon Railroad & Navigation:
 History, 279†, 286
 I. C. C. Report, Harriman Investigation, 60
 Oregon Short Line (See also Harriman Lines):
 History, 279†, 286
 I. C. C. Report, Harriman Investigation, 60
 Osborne, T. M., 13*
 Otto Gas Engine Works, Mansfield Guard-Rail Clamp and Tie Plate, 729*
 Packer (See Meat Industry)
 Packing, Test of Holmes' Metallic, 134
 Paint:
 Bridge Steel Work, and Handling Paint Supplies, 650
 M. of W. Master Painters' Convention, 649
 Panama Canal (See also Isthmian Canal Commission):
 Monthly Excavation Reports, 159, 304, 535, 567
 Work Done in 1907, 697
 Panics, Five, 769†
 Pass:
 Effect of Abolition on Atlantic City, 107
 A. T. & S. F. in Missouri, 49
 Complimentary Tickets Out of Officers' Salaries, 255†
 Illinois Central Indicted for Violation of Law, 333
 Mississippi, R. R.'s Fined for Failure to Report Number Issued, 467
 St. L. & M. & S. Indicted for Violation of Law, 333
 Use in Texas, 567
 Passenger Rates (See also Interstate Commerce Commission Rulings; also Pass; also Passenger Rate Reduction):
 Baggage Allowance, Missouri, 241
 Baggage Rates Increased, 303
 British, Inquiry, 632
 Cash Fares Increased in Number in Ohio, 759
 Clergyman, 429
 Complimentary Tickets, 255†
 Increased, N. Y. C. & H. R., 21
 Interurban Fares, 586
 Increase, Mexico, 535
 N. Y. C. & H. R., Hudson Division, 759
 Non-Transferable Tickets, 791
 Pullman Fare, New York, 241
 Second Class Party Fares not Good on Sleepers and Parlor Cars, 429
 Stop-Over on Account of Sickness, 503, 663
 Ticket Scalping, Chicago, 75, 759
 Ticket Scalping, Louisiana, 773
 Ticket Scalping, L. & N., 695
 Ticket Scalping, Nebraska, 695

P

Passenger Rate Reduction (See also Interstate Commerce Commission Rulings):
 Alabama, 133, 185, 193†, 211, 397, 503, 631, 663, 673†, 695, 727
 Arkansas, 24
 B. & O., Pittsburgh-Philadelphia, 503
 B. & M., Competing with Electric Lines, 599
 C. B. & Q., 61, 730
 Chicago, Westward and Eastward, 76
 Cleveland Three-Cent Fares, 94
 Erie, Second-Class, Chicago to New York, 503, 663, 727
 Georgia, 266, 273, 311†, 429, 599, 695
 Grand Trunk, 760
 Illinois, 21, 51, 467
 Iowa, 51
 Iowa Central, 49
 Italian State Railroads, 13

Passenger Rate Reduction (Continued):
 Kansas, 365, 429, 467
 Massachusetts, Public School Pupils at Half Price, 626
 Michigan, 429
 Mileage Tickets and Two-Cent Fares, 671†
 Mileage Tickets, East and West from Chicago, 76
 Mileage, Two-Cent, New York, 211, 567, 665, 671†
 Minnesota, 51, 303
 Minneapolis & St. Louis, 49
 Missouri, 21, 51
 Nebraska, 397
 North Carolina, 85†, 114†, 159, 193†, 503, 673†, 759, 791
 Ohio, 759
 Oklahoma, 631, 663
 Pennsylvania, 21, 159, 302, 365, 366, 759
 Recent State Laws, 396
 South Dakota, 185, 429
 Southern, 503
 State Legislation in 1907, 168
 Texas, 273, 365
 Union Pacific, 159
 Virginia, 21, 51, 159, 193†, 211, 273
 Wabash, 133
 West of Chicago, 105
 Wisconsin, 51, 75, 159, 211, 303, 397
 Passenger Traffic (See also Traffic):
 Berlin, 560
 English Excursions, 183
 Growth in Five Years, 341†, 373†
 New York City, 328*
 Transatlantic Travel, 792
 Yale-Princeton Game, 671†, 692
 Pay (See Wages Increased)
 Pennsylvania:
 Two-Cent Law Unconstitutional, 302
 Pennsylvania Railroad:
 Advertisements on Freight Cars, 253†
 Arrests by Railroad Police, 159
 Block Signal Costs, 785
 Discrimination, Coal Companies, 695
 Early Locomotives, 719*
 Electric Locomotive, 327*, 624*, 707†
 Fire Protection, Altoona, 304
 Freight Car Movement in May, 49
 Freight Train Statistics, 31†
 Illegal Freight Rates, 303
 Illegal Rates on Oil, 185
 Lidgerwood Winch at Greenville Transfer Bridge, 50*
 N. Y. City Extension, 67*
 N. Y. Improve, 535
 New York Terminal Delayed by Municipal Authorities, Improvement, 139†
 Number of Stockholders, 631
 Passenger Train Frequency Between New York and Philadelphia, 759
 Price of Material, 105
 Rail Experience, 29†
 Remeasurement, 303
 School for Telegraphers, 273, 313†, 467
 Smoke Jack, 501*
 Timber Cultivation, 567
 Tunnels Under Manhattan, 44*
 Washington Union Station, 527*
 Wilmarth Locomotives, 357*
 Pennsylvania Lines West (See also names of subsidiaries):
 Western Union Telegraph Contract, 429
 Pacific Locomotive, 238*
 Penna., New York & Long Island, Tunnels Under Manhattan, 44*
 Pension (See Employee)
 Per Diem (See Car Service)
 Pere Marquette:
 Annual Report, 486†
 Collision at Salem, Mich., 91, 114†, 124*, 168†, 253†
 Perkins, C. E., 617*
 Permanent Way (See Maintenance of Way)
 Peru:
 Highest Railroad Station, 4†
 Philadelphia & Reading:
 Annual Report, 545†
 Early History, 97*
 Freight Train Statistics, 31†
 Suburban Tank Locomotive, 104*
 Street Railway Competition, 49
 Philadelphia & Western:
 Automatic Block Signals, 621*
 Philadelphia Rapid Transit:
 Franchise Ordinance, 49
 Philippine Islands:
 Railroad Progress, 64
 Philippine Railways, 297*
 Phoenix & Eastern, 228*
 Picked Up on the Road, 175
 Pipe (See also Hose Coupling):
 Steam and Exhaust Piping, Erie Mallet Com-pounds, 384*
 Piston (See Locomotive Cylinder)
 Pittsburgh Car Service Assoc., Report on Detention, 273
 Pittsburgh & Lake Erie:
 Freight Train Statistics, 31†
 Smoke Jack, 501*
 Pneumatic Tools (See Machine Tools)
 Pneumatic Tool Co., Thor Hose Coupling, 160*
 Police:
 Baltimore & Ohio, 105
 Penna. Railroad, 159
 New York Central Freight Car, 48
 Pontchartrain Railroad, Ordered to Better Equipment, 159
 Poor's Manual for 1907, 237
 Popular Feeling (See Public, The, Railroads' Relations with)
 Portland & Seattle, 360*
 Powell, William, Co., Pilot Gate Valve, 666*
 Pressed Steel Car Company:
 Price Automatic Stop, 399
 Price (See Business Situation)
 Profits of Different Industries Compared with Those Expected of Railroads, 761
 Prosperity (See Business Situation)

Prussian State Railroads:
 Average Annual Freight Car Mileage, 566
 Continuous Brakes, 694
 Locomotive Requirements, 48
 Pistons and Valves for Superheated Steam, 652*
 Purposes of 1907 Loan, 617
 Test Track, 184*
 Public, The, Railroads' Relations with:
 A Few Phases of Railroad Science, 315†
 Courteous and Equal Treatment of Customers, 305
 Cultivating Public Opinion, 184
 Farmers' Attitude, 673†
 Louisville Board of Trade Resolutions, 1†
 Passengers Asked to Criticize, 23
 Penalty in Corporate Misdoing, 407†
 Popular Reason for Government Ownership, 107
 Settlement of Claims, 62, 141†, 150, 197†, 382†, 406†
 Socialism and the Railroads, 60, 141†
 Station Agent and Public, 343†, 355
 Public Service Corporation (New Jersey):
 Discontinuance of Use of Open Cars, 273
 Pullman Co.:
 Annual Report, 632
 Pump, Force, Ludgeon, 399*
 Purdue University:
 Prof. Benjamin Succeeds Prof. Goss, 185
 Resignation of Prof. Goss, 55†
 Tests of Cole Superheater, 354*

R

Rack Railroad, Abt, 395
 Rack Railroad, Münster-Schlucht Elec., 661*
 Rail (See also Maintenance of Way):
 Am. Ry. Assoc. Comm., Conference, 310†, 367, 443†, 577†, 735†
 Am. Ry. Assoc. Sections, 608†, 627*, 671†, 677†
 Am. Ry. Eng. and M. of W. Assoc. Section, 444†
 A. S. C. E. Section, 444†, 608†
 Angle Bars Made of Discard from Ingot, 139†
 Areas of Contact with Wheel, 752*
 Bad Rails by Bad Makers, 29†
 Chemical Composition, 96
 Coefficient of Friction with Wheel, 786*
 Comparative Specifications A. S. C. E., M. of W. Assoc. and Am. Soc. for Testing Materials, 1†, 250†
 Am. St. and Int. Ry. Assoc. Report, Corrugations, 480†
 Crescent Break, 677†, 707†
 Discard from Ingot, 607†, 616†, 741†
 Dudley Section, 608†
 Elementary Essentials, 56†
 Exports, 274, 729
 Illogical Adherence to Standard Sections, 58†
 Lock, Weaver, 718*
 Mansfield Guard-Rail Clamp and Tie Plate, 729*
 Mechanical Treatment, Past and Present, 746
 Pennsylvania R. R. Experience, 29†
 Prussian State Railroad Prices, 682
 Rolling Large Section Without Distortion, 671†, 673†, 707†
 Rolling Rails in Universal Mill, 4†
 Stahlwerks-Verband Prices, 575†
 Third Rail Accidents in England, 294, 642†
 Third, Standard Location for, 559*
 Ties Made from Top of Ingot, 139†, 198†
 Wheel and Rail Sections, 444†
 Railroads (See also Public, The, Railroads' Relations with):
 Built in U. S., Canada and Mexico in 1907, 768†, 779
 Poor's Manual for 1907, 237
 Statistics of U. S., I. C. C. Annual Report, 309†, 318
 Railroad Commissions (See State R. R. Commissions)
 Railroad Supply Co., Electric Switch Lock, 665*
 Railway Auto Car Co.:
 Ganz Car for Intercolonial, 356*
 Railway Materials Co., Portable Oil Furnace, 335*
 Railway Signal Association:
 Comm. Report on Interlocking and Block Signals, 456*, 479†
 Committee Report on Maintenance of Automatic Block Signals, 527
 Convention, 459
 Convention Exhibits, 456
 History, 458*
 Lamps, Report on, 480†, 502
 Track Circuits, 86†, 168†
 Rail Bascule Bridge, 10*
 Rate Law (See Interstate Commerce Law)
 Reading Company:
 Annual Report, 545†
 Rebates (See Freight Rates)
 Receiverships:
 Abyssinian Railroad, 23
 Westinghouse Companies, 512†
 Year's Record, 768†
 Reduction of Time or Forces (See also Employee; also Wage Reductions):
 Amer. Loco. Co., Nine-Hour Day, 599
 Blast Furnaces Blown Out, 792
 C. M. & St. P., 631, 663, 727
 Dismissals by Western Roads, 631
 Erie, 631
 Illinois Central, Nine-Hour Day, 599
 N. Y. C. & H. R., 75
 N. Y. N. H. & H., 511†
 Northern Pacific, 631
 Penna. R. R., 75, 631
 Southern Ry., 333, 366
 Refrigeration:
 Mechanical, in Railroad Work, 617
 Reinforced Concrete (See Concrete Reinforced)
 Rensselaer Polytechnic Institute, 526
 Reports, Annual (See individual companies)
 Retrenchment (See Reduction of Time and Forces)
 Roadbed (See Maintenance of Way)
 Roadmasters' and M. of W. Assoc. Convention and Exhibits, 654

GENERAL INDEX—Continued.

[Illustrated articles are indicated thus*; Editorials thus†; Contributions thus‡.]

- Robbery:
Freight, N. Y. N. H. & H., 429
Rock Island Co.:
Annual Report, 445†
Sale of Chic. & Alt. Control, 222†
Rogers Journal Box, 212*
Rolling Mill (See Rail)
Roofing (See Car)
Roundhouse:
Chicago Junction Ry., 744*
Rudd, A. H., 460*
Rules (See Accidents; Employee; Signals)
Russia:
Assassination of Railroad Officers, 265
Budget for Railroad Improvements, 237
Grain Shipments, 584
Railroad Mileage, 534
Train Robbery, 677
Trans-Siberian, Investigation of Traffic, 396
- S**
- St. Louis:
Absorption of Bridge Toll, 467
St. Louis & San Francisco:
Annual Report, 448†, 477
Electric Train Staff and Interlocking, 727
St. Louis Car Co.:
Electric Cars for Erie, 461*
N. Y. C. & H. R. Coach, 235*
St. Louis, Iron Mountain & Southern (See Missouri Pacific)
St. Louis Southwestern:
Annual Report, 484†
St. Louis Terminals, 49
Safety Appliance (See also Brake):
Buell Automatic Stop and Cab Signal, 274
Canada Railroad Commission, 503
England, Board of Trade Committee, 223†
I. C. C. Block Signal and Train Control Board, 58
Jefcoate Automatic Stop, 160
Price Automatic Stop, 399
Quinn Automatic Brake and Fender, 791
Safety Appliance Law:
B. & O. Sued for Violation, 365
Prosecutions for Violation, 397
Violations, 23
Sague, J. E., 13*
Salary (See Officer; also Wages)
Salton Sea, 105
San Pedro, Los Angeles & Salt Lake (See also Harriman Lines):
I. C. C. Report, Harriman Investigation, 60
Savage Safety Brake Co., Atlas Slack Adjuster, 334*
Schedule (See also Fast Trains and Runs):
New York Central Twentieth Century Limited, 727
N. Y. O. & W. Reduced Speed, 273
Schmidt Pistons and Valves for Superheated Steam, 652*
Schools (See Names)
Seaboard Air Line:
Draft Gear for Stub-End Passenger Cars, 143*
Section Foreman (See Employee)
Security Investment Co., Receivership, 512†
Semaphore (See Signal)
Shaw Mfg. Co., 10-Ton Crane, Readville Shops, N. Y. N. H. & H., 684*
Sheffield Car Co., Motor Inspection Car, 696*
Shepherd, J. A., & Son, Hundred-Ton Wagon, 567
Sherman Act:
Indictments of Un. Pac., O. S. L. and U. P. Coal Co., 663
Competition and Confiscation Under, 544†
Sherwin-Williams Paint Co., Annual Convention, 569
Ship (See also Names of Companies):
American & Manchurian Line, 274
Can. Pac. Additional Steamships, 429
Enterprise Transportation Co., Receivership, 631
Freight Line, New York and Boston, 791
Havana, 393*
Joy Line Bought by U. S. Transportation Co., 567
Largest Wheat Cargo on Great Lakes, 730
Lift, Dortmund-Ems Canal, 688*
Line from Vancouver to Mexico, 133
Lusitania, 166†, 176*, 467
Mauretania, 567
San Jacinto, 394*
Steamship Co.'s Record, 21
Transatlantic Steamship Development, 166†
Yale, 393*
Shipper (See Car Service; also Freight)
Shonts, T. P., 709*
Shops:
Beech Grove, C. C. C. & St. L., 655*
Gen. Ry. Sig. Co., Rochester, N. Y., 748*
Grand Trunk, Stratford, Ont., 726*
Readville Locomotive, N. Y. N. H. & H., 682*
Union Pacific, Blacksmith, at Omaha, 70*
Shop Practice:
Best Fuel for Blacksmith Shop, 357
Die Work, 318
Slam:
Railroad Earnings, 758
Siemens-Halske Co., Berlin Subway, 531
Signal (See also Railway Sig. Assoc.):
Buell Automatic Stop and Cab Signal, 274
Hall Electro-Mechanical Slot, 95*
Lamps, Ry. Sig. Assoc. Report, 480†, 502
Protection of Track Circuits from Foreign Currents, 567
Stereoscopic Tests for Trainmen, 695
Top-Mast Electric Motor Signal, Gen. Elec. Co., 63*
- Signal, Block (See also Ry. Sig. Assoc.):
Audible Distant Signals, Great Western, 584*
Automatic, Phila. & Western, 621*
Automatic, Sou. Pac., 75
Belgian State R. R.'s, Revised Rules, 141†
Brilliant Plan of Two Irish Gentlemen, 537*
C. R. I. & P. Automatic, 273
Compulsory, Indiana, 186
Controlled Manual, C. B. & Q., 303
Costs, Penna. R. R., 765
Dry Battery for Block Signal Wires, 19
Efficient Operating N. Y. Cent., 502
Electric Railways, 253†
Electric Train Staff, St. L. & S. F., 727
I. C. C. Block Signal and Train Control Board, 58
Maintenance of Automatic, Ry. Sig. Assoc. Committee Report, 527
Manhattan Elevated, Solenoid, 321*
Method of Uniform Signaling, Ry. Sig. Assoc. Comm. Report, 456*, 479†
N. Y. Cent. All Electric, 223†, 227, 296
Overlaps and Discipline, 575†
Remedy of Effects of Foreign Current, 466
Salem, Mich., Collision, 253†
Southern Pacific, 503
Suspended, N. Y. N. H. & H., 646*
Track Circuits, 86†, 168†
Union Pacific, 503
Signal, Interlocking (See also Ry. Sig. Assoc.):
Electric Switch Lock, 665*
Method of Uniform Signaling, Ry. Sig. Assoc. Comm. Report, 456*, 479†
N. Y. Cent. All Electric, 223†, 227, 296
St. Louis & San Francisco, 727
Tower, Concrete, N. Y. N. H. & H., 647*
Simplon Tunnel:
Completing Double Tunnels, 596
First Year's Operation, 356
Sloan, Samuel, 421*
Smith, A. H., 264, 727, 735†
Smoke:
Abatement, 609†
Consumers, History, 719*
Nuisance, 429
Soft Coal, Traveling Engineers' Assoc., 255
Smoke Jack:
Report to Superintendents of Bridges and Buildings Assoc., 500*
Societa Italiana Ernesto Breda, Four-Cyl. Bal. Comp. Locomotive, 128*
Sorenson Journal Box, 728*
South America:
Trans-Andine Railroads, 125*
South Manchurian:
Locomotives for, 690*
Southern Pacific (See also Harriman Lines):
Accident Report Publication, 2†
Automatic Block Signals, 75
Bay Shore Cut-Off, 729
Block Signals, 503
Colorado River Break, 105
Electrification, 249†
Express Carrying Trains, 253†
History, 279†, 286
Hospital at San Francisco, 89*
I. C. C. Report, Harriman Investigation, 60
Interpretations of Interstate Commerce Law, 663
Irrigation, 632
Passenger Station, Tucson, Ariz., 40*
Passenger Traffic, San Francisco Ferries, 49
Roseville Yard, 783*
Transcontinental Cut-Off, 228*
Southern Railway:
Annual Report, 514†
Conflict with State Authorities, 193†
New Line from Jasper to French Lick, 261*
Reduced Dividend, 311†
Retrenchment, 333, 366
Sale of Central of Georgia, 3†
Speed (See Fast Trains and Runs)
Spike (See Maintenance of Way)
Standard Oil Co.:
Fined for Rebating, 153, 535
Illegal Freight Rates, 363
Mileage Credential Redemption, 303
New York Central Rebates, 49
Standard Time on Canadian Pacific, 40
State Ownership (See Government Ownership)
State R. R. Commission (See also Names of States; also Nat. Assoc. of Ry. Comm.):
Control by, 383
Evolution of, 87†
New in 1907, 168
Partisanship, 310†
Performing Their Natural Functions, 607†
Station (See also Yards and Terminals; also Freight House):
Buffalo, Proposed Union, 15*
Evansville & Terre Haute at Evansville, Ind., 59*
Floral Prizes, B. & M., 651*
Harriman Lines, Salt Lake City, 33*, 88†, 116†
Highest in the World, 4†
Mexican Central, 271*
Multhead Station Indicator, 665*
Oregon R. R. Commission Orders, 211
Parcel Rooms, 415†
Slough Station, England, 566*
Sou. Pac. Tucson, Ariz., 40*
Waco, Tex., Union, 132*
Washington Union, 467
Washington Union, 527*
Station Agent (See Employee)
Station Indicator, 665*
Staybolt (See Locomotive Boiler)
Steamer (See Ships)
Steel (See Rail; also Iron and Steel)
- Steel-Concrete (See Concrete, Reinforced)
Stock (See Finance)
Stone, E. B. & A. L. Co., Unloader for High Fills, 72*
Street Railways (See also Electric Railways):
Abandonment Justified, 792
Cleveland Three-Cent Fares, 94
Construction, What Constitutes a Beginning, N. Y. Pub. Serv. Comm., 727
Gas Engines in St. Ry. Service, 492
Hot Water Locomotives, 709
Massachusetts, 755
Noise Nuisance, 304
Strike:
British Threatened, 536, 543†, 608†, 697
Colorado & Southern, 185
D. & R. G. Trainmen, 273
Huntingdon & Broad Top, 599
India, 632
Mex. Cent. Firemen, 273
Toledo, Ohio, Railroad Clerks, 397
Two Documents, 256*
United of Havana, 429
Western Union Telegraph, 256*, 303, 503
Strobel Steel Construction Co., Rail Bascule Bridge, 10*
Subway:
Berlin, 531, 742
Chicago Subway, 243
New York (See Interborough Rapid Transit)
Sugar Beet, Production, 20
Sun Ning R. R. Box and Flat Cars, 325*
Superheated (See Maintenance of Way)
Superheater:
Can. Pac. Ten-Wheeler, 619*
Cole, 354*
Early, 520*
Enginemans and, 270
New York R. R. Club Discussion, 415
Pistons and Valves for Superheated Steam, 652*
Use in United States and Canada, 357
Sweden:
Electrification, 238
Switch:
Curve and Switch Tables, 552*, 772†
Electric Lock, 665*
Switch Stand, Buda, 398*
Switzerland:
Electrification in, 332
Jungfrau Railroad, 420
Single Phase Experiments, 744
- T**
- Taxation:
Cent. of Ga.'s Holdings in Western of Alabama, 633
Direct, 373†
German Ticket Tax, 62
Grade Crossings, New York, 133
Increased in 1906, 310†
New Jersey, 160, 186
Tehuantepec National:
History, 154*
Telegraph (See also Assoc. of Ry. Telegraph Superintendents; also Hours of Labor):
Barclay Automatic, 303
School, Penna. R. R., 273, 313†, 467
Schools, Union Pac. and A. T. & S. F., 503, 631
Wire Testing, 257
Telephone:
Censoring Railroad Messages, 22
Tests:
Gullick-Henderson & Co., 333
Texas Central:
Annual Report, 706†
Texas Railroad Commission:
Accident Reports, 303
Railroads Ordered to Buy Equipment, 599, 695, 703†
Thermit Welding, 134*, 274
Third Rail (See Rail)
Thomas, J. W., Monument, 663
Ticket (See Passenger Rates)
Tidewater Ry., 203*
Tie (See also Timber):
Austrian State R. R.'s, 709
Consumption in 1906, 757
Cross-Rolled Steel, 198†, 791
Haarman Steel, 352†
Holding Power of Railroad Spikes, 143*
Preservation, 755
Steel, B. & L. E., 366
Steel Made from Top of Rail Ingot, 139†, 198†
Treating Plant, M. K. & T., 365
Tie Plate, Mansfield Guard-Rail Clamp and, 729*
Timber (See also Tie; also Lumber):
Am. Soc. for Testing Mat., Specifications for Structural Timber, 155
Cultivation, Penna. R. R., 567
Exports and Imports in 1907, 680
Oregon's Forest Wealth, 695
Strength of Fir Bridge Stringers, 48
Waning Supply of Hardwood, 639†
Time (See Standard Time)
Timetable (See Schedule)
Tires (See Wheel)
Tobacco (See Employee)
Toledo, Peoria & Western, Method of Hanging Light on Drawbridge, 494*
Toledo, St. Louis & Western:
Acquisition of Chic. & Alt., 222†, 233*, 676†*
Annual Report, 676†*
Tonnage Rating (See Train)
Tool (See Machine Tool)

Track (See Maintenance of Way)
 Track Elevation (See Grade Separation)
 Tractive Power (See Locomotive Performance)
 Trade Unions (See also Strikes):
 Discharge of Strikers Approved, 75
 England: Richard Bell, Labor Leader, 536
 Switchmen's Union Enjoined, D. L. & W., 631
 Traffic (See also Freight Traffic; also Passenger Traffic; also Business Situation):
 India, Traffic Department in, 3†
 Density, 373†
 Train:
 Increased Weight of Freight Trains, 31†, 444†
 Why Late, 197†
 Train Despatchers' Association, Annual Meeting, 37
 Train Lighting (See Lighting)
 Train Load (See also Train)
 Train Movement:
 Efficient Operation on N. Y. Cent., 502
 Trainmen (See Employee)
 Train Orders:
 Hoops for Derriving, 313†
 Train Pipe (See Hose)
 Train Robberies (See also Robbery):
 C. R. I. & P., 303
 France, 790
 Russia, 677
 Train Rules:
 Overlaps and Discipline, 575†
 Porters as Flagmen, Erie, 599
 Train Despatchers' Assoc. Recommendations, 37
 Two-Color Fuses, 567
 Whistling Nuisance, 280†*
 Train Service (See Schedule)
 Tramp:
 Danger from, 241, 345†
 Tramways (See Electric Railway; Street Railways)
 Traveling Engineers' Association:
 Convention, 286
 Reducing Smoke Nuisance, 255
 Trestle (See Bridge)
 Trolleys (See Electric Railways)
 Trolley Wire (See Electric Traction)
 Truck:
 First Elec. Truck Built in Germany, 363*
 Trailing, Pacific Locomotive for Penna. Lines West, 239*
 Tunnel:
 Battery, New York City, 67*, 467, 667
 Belmont, 366
 Burton, Southern Ry., 262*
 D. & R. G., Belden, 715*
 Detroit River, 420*, 663
 Hudson & Manhattan, 67*, 791
 Mt. Blanc, 73
 New York City, Tunnels Under Construction in, 67*
 Pennsylvania R. R. under Manhattan, 44*
 Rove, France, 626
 Turbine (See also Ship):
 Curtis, Steam Consumption, 568
 Economy Test of Westinghouse-Parsons, 419
 Turntable Deflection, 389*
 Two Cents a Mile (See Passenger Rate Reduction)
 U
 Union Pacific (See also Harriman Lines):
 Accident Report Publication, 2†
 All Steel Passenger Car, 530*
 Blacksmith Shop at Omaha, 70*
 Block Signals, 503
 Gasoline Motor Cars, 199*, 242
 Growth of, 279†, 286
 I. C. C. Report, Harriman Investigation, 60
 Union Switch & Signal Co.:
 Solenoid Signals, Manhattan Elevated, 321*
 United Engineering & Contracting Co., Pennsylvania Tunnels under Manhattan, 44*
 U. S. Express Co.:
 Dividend, 468
 Income Account, 211

United States Gas Machine, 334*
 United States Geological Survey, Boiler Efficiency Tests, 29†, 32
 U. S. Metal & Mfg. Co., Continental Whistling Post, 760*
 United States Steel Corporation:
 Bad Rails, 29†
 Earnings, Second Quarter, 135
 Profit Sharing, 632
 Quarter Ended Sept. 30., 535
 Steamship Line to Orient, 274
 United States Transportation Co., Acquisition of Joy Line, 567
 Universities (See names)
 University of Colorado:
 New Instructors, 367
 University of Illinois:
 Appointment of Prof. Goss, 55†
 University of Iowa:
 Engineering Prize, 186
 University of Minnesota:
 New Instructor, 367
 Unloader for High Fills, 72*

V

Value (See Finance)
 Valve:
 Intercepting, Exhaust, and Reversing Gear, Erie Mallet Compounds, 384*
 Pacific Locomotive, Penna. Lines West, 240*
 Pilot Gate Valve, 666*
 Pistons and Valves for Superheated Steam, 652*
 Valve Gear:
 Walschaert, 643†
 Vanadium Steel, 325
 Vandalla:
 Grade Separation and Improvements at Indianapolis, 774*
 Venezuela:
 Railroads in, 750
 Ventilation:
 Foundry Cooling, 304
 Viaduct (See Bridge)
 Victorian R'ys:
 Melbourne Electrification, 49, 703†, 709*
 Virginian R'y, 203*
 Vise (See Machine Tools)
 Vision (See Employee)
 Voucher, Detachable Draft, 284*

W

Wabash:
 Annual Report, 580†*
 Fined for Failure to Report Accident to I. C. C., 599
 Passenger Rates, 133
 Trackage Agreement with Chicago & Alton, 503
 Waghals Steel Passenger Car, 234*
 Wages:
 Checks, C. of N. J., 631
 Wage Increases:
 Grand Trunk, 695
 Italian State Railroads, 13
 Long Island, 273
 N. Y. C. & H. R., 429
 A. T. & S. F., 429, 467
 Can. Pac., 467
 Missouri Pacific, 303
 Wage Reductions:
 N. Y. Air Brake Co., 599
 N. Y. Cent., 211
 Wagon, Hundred-Ton, 567
 Ward Line, 392*
 Warehouse (See Freight House)
 Washington:
 Railroad Commission's Rules, 50
 Watertown Arsenal, Investigation of Steel and Structural Members, 561
 Weaver Rail Lock for Drawbridges, 718*

Wells, Fargo & Co., Earnings, 275
 West Shore R. R. (See N. Y. C. & H. R.):
 Electrification, 67*
 Western & Atlantic, History, 122
 Western Elaterite Roofing, 760
 Western Maryland:
 Annual Report, 548*
 Western Pacific:
 Roadbed of Salt, 242
 Unloader for High Fills, 72*
 Western Union Telegraph Co.:
 Dividend, 727
 Penna. Lines West, Contract, 429
 Strike, 256*, 303, 503
 Westinghouse, Church, Kerr & Co.:
 Electrification, Rochester Division of the Erie, 405†, 422*, 461*
 Gen. Ry. Sig. Co. Shops, 748*
 Westinghouse Elec. & Mfg. Co.:
 Electric Locomotive, Penna. R. R., 327*, 624*, 707†
 Receivership, 512†
 Westinghouse, George, 512†
 Westinghouse Machine Co.:
 Receivership, 512†
 Test of Turbine, 419
 Wheel:
 Areas of Contact with Rail, 752*
 Coefficient of Friction with Rail, 786*
 Defects and Failures of Steel Tires, 479†, 495*, 532*, 543†
 Griffin Double Tread, 558*
 M. C. B. Sections, 444†
 Rail and Wheel Sections, 444†
 Wheel Pressures on Curves, 198†, 253†, 309†, 317*, 576†, 591*
 Wheeling & Lake Erie:
 Annual Report, 348†*
 Seven Years' Progress, 743*
 Whistling Nuisance, 280†*, 315†
 Whistling Post, Continental, 760*
 Wilcox, W. J., 55†
 Wilcox, W. R., 13*
 Wilmarth Locomotives, 357*, 382†, 490†
 Winch (See Hoisting and Conveying)
 Wire (See Electric Traction; also Signal; also Telegraph)
 Wisconsin Cent.:
 Annual Report, 516†*
 Rebates, 185
 Wisconsin Engine Co.:
 Gas Engine, 696
 Wisconsin R. R. Commission:
 Resignation of John Barnes, 105
 Logging Road Common Carrier, 211, 241
 Lumber Road Ordered to Give Passenger Service, 577†
 Report, 709
 Wood (See Timber)
 Works (See Shops)
 Y
 Yale & Towne:
 Triplex Holst, 71*, 134
 Yale University:
 Registration of Freshman Classes, 467
 Treasurer's Report, 479†
 Yards & Terminals:
 Buffalo Union Terminal, 15*
 Bush Terminal Co., 786*
 C. & N.-W., Omaha Freight Terminal, 708*
 Chicago Junction Ry., Locomotive Terminal, 744*
 Harriman Lines, Salt Lake City, 33*, 88†, 116†
 St. Louis Improvements, 49
 Sou. Pac., Roseville, 783*
 Stickney Tract, Chicago, 76
 Vandalla R. R., Indianapolis, 774*
 Yazoo & Mississippi Valley:
 Annual Report, 413†*
 York Cross-Rolled Steel Ties, 198†, 791
 Young Men's Christian Association (See Employee)

NEW PUBLICATIONS.

Allowable Pressures on Deep Foundation, 282
 American Railways as Investments, 167
 American Street Railway Investments, 57
 The Art of Railroad, or the Technique of Modern Transportation, 415
 The Bond Buyer's Dictionary, 282
 The Car Wheel, 741
 The Chemistry of Commerce, 490
 Deformation of Railroad Tracks and the Means of Remedying Them, 643
 Development of the Locomotive Engine, 381
 Electric Railway Engineering, 115
 Electrical Engineering, 351
 Explanation of Switch and Signal Circuits, 490

Hendricks' Commercial Register of the United States, 254
 Laying-Out for Boiler Makers, 382
 Locomotive Breakdowns and How to Repair Them, 520
 National Association of Railway Commissioners: Proceedings of Eighteenth Annual Convention, 707
 On the Art of Cutting Metals, 282
 Proceedings of the Society for the Promotion of Engineering Education, 3
 Railroad Operation in Italy, 490
 Railway Corporations as Public Servants, 550

Railway Enterprise in China, 642
 Railway Shop Up-to-Date, 741
 Recollections of an Ill-Fated Expedition to the Headquarters of the Madeira River in Brazil, 381
 Self-Propelled Vehicles, 282
 Specifications for Street Roadway Pavements, 3
 State Railways: Object Lessons from Other Lands, 452
 Strength of Structural Timber, 583
 Substitution of the Electric Locomotive for the Steam Locomotive, 520
 Switches and Turnouts, 382
 A Text-Book on Roofs and Bridges, 676
 The Way to Ship from Chicago to the South, 643
 Wrenmore's Batter Tables, 116

INTERSTATE COMMERCE COMMISSION RULINGS.

- Albany Produce Co. vs. Chicago, Burlington & Quincy, 468
 American Fruit Union, Cincinnati, Ohio, vs. Cincinnati, New Orleans & Texas Pac., 186
 Arkansas Railroad Commission vs. St. Louis & North Arkansas, 24
 Atchison, Kansas City Council, vs. Missouri Pacific and Chicago, Burlington & Quincy, 51
 Birmingham Packing Co. vs. Texas & Pacific et al., 698
 California Fruit Growers' Exchange et al. vs. Southern Pacific, 761
 Cattle Raisers' Association of Texas and the Chicago Live Stock Exchange vs. Chicago, Burlington & Quincy et al., 730
 Coffeyville Vitrified Brick & Tile Co. vs. St. Louis & San Francisco and the Rock Island, 698
 Dallas Freight Bureau vs. Missouri, Kansas & Texas et al., 468
 Dallas Freight Bureau vs. Gulf, Colorado & Santa Fe et al., 23
 Desel-Boettcher Co. vs. Kansas City Southern et al., 24
 Enterprise Transportation Co. vs. Pennsylvania Railroad and New England Navigation Co., 77
 A. M. Fellows Coal & Material Co. vs. Missouri Pacific, 633
 Georgia Edwards vs. Nashville, Chattanooga & St. Louis, 51
 Harth Bros. Grain Co. vs. Illinois Central et al., 506
 Hennepin Paper Co. vs. Northern Pacific and the Oregon Short Line, 761
 Hope Cotton Oil Co. vs. Texas & Pacific and St. Louis, Iron Mountain & Southern, 77
 Howard Mills Co. vs. Missouri Pacific et al., 51
 Kansas Farmers, Merchants & Shippers' vs. A. T. & S. F. and Gulf, Colo. & Santa Fe and C. R. I. & P. et al., 107
 Laning-Harris Coal & Grain Co. vs. Atchison, Topeka & Santa Fe, 633
 J. H. Leonard et al. vs. Chicago, Milwaukee & St. Paul, 633
 Loup Creek Colliery Co.—Application for Through Joint Rates, 633
 McLaughlin Bros. vs. Adams Express Co., 633
 McRae Terminal Railway vs. Southern Railway and Seaboard Air Line, 77, 761
 Merchants' Exchange of St. Louis vs. Missouri Pacific, 792
 Missouri and Kansas Shippers' Association vs. Missouri, Kansas & Texas, 633
 W. O. Mitchell vs. Atchison, Topeka & Santa Fe et al., 77
 Morse Produce Co. vs. Chicago, Milwaukee & St. Paul et al., 633
 Muskogee Commercial Club and Muskogee Traffic Bureau vs. Missouri, Kansas & Texas, 78
 Nobles Bros. Grocery Co. et al. vs. Fort Worth & Denver City et al., 52
 Ohio Railroad Commission vs. Hocking Valley and Wheeling & Lake Erie, 16
 Oklahoma Territory vs. C. R. I. & P. et al., 135
 Omaha Cooperaage Co. vs. Nashville, Chattanooga & St. Louis et al., 77
 Pacific Purchasing Co. vs. Chicago & North-Western et al., 761
 Paper Mills Co. of Baltimore, Md., vs. Pennsylvania Railroad et al., 505
 A. J. Poor Grain Co. vs. C. B. & Q. et al., 186
 Pressley vs. Gulf, Colorado & Santa Fe et al., 730
 Quinby et al. vs. Clyde Steamship Co. et al., 160
 Railroad Commission of Oregon vs. Chicago & Alton et al., 761
 Riverside Mills vs. Southern Ry. et al., 134
 E. L. Rogers & Co. vs. Philadelphia & Reading, 77
 Roswell Commercial Club et al. vs. A. T. & S. F. et al., 107
 San Francisco Toll Case: Southern Pacific Toils at San Francisco, 78
 Santa Barbara vs. A. T. & S. F. and Southern Pacific, 697
 Schwager & Nettleton vs. Great Northern, 730
 R. R. Shiel & Co. vs. Illinois Central et al., 23
 Southern Grocery Co. and Holmes-Hartsfield Co. vs. Georgia Northern Railway et al., 24
 Stowe-Fuller Co. vs. Pennsylvania Co., Pennsylvania Railroad and the B. & O., 23
 Trouble with Low Rates from Crowder City (Missouri, Kansas & Texas), 761
 Union Springs, Ala., Commercial and Industrial Association vs. Louisville & Nashville, et al., 135
 Union Springs, Ala., Commercial and Industrial Association vs. Central of Georgia, 135
 J. E. Walker vs. B. & O. and United States Express Co., 107
 A. Waller & Co. vs. Illinois Central et al., 506
 Waller, Young & Co. vs. Illinois Central et al., 506
 Warren Mfg. Co. et al. vs. Southern Ry. et al., 135
 W. N. White & Co. vs. Baltimore & Ohio South-western and Baltimore & Ohio, 77

PERSONAL.

[Portraits are indicated thus*.]

- | | | | |
|--------------------------------|-------------------------|--------------------------|-----------------------------|
| Adams, B. B., 58 | Davis, R. W., 109* | Maltbie, M. R., 41* | Sims, C. S., 25* |
| Allen, F. W., 245 | Dean, J. W., 25* | Maltby, F. B., 244 | Slade, George Theron, 603 |
| Allison, W. A., 81* | Decker, M. S., 13* | Mattoon, Winford L., 507 | Slifer, H. J., 213 |
| Ames, Azel, Jr., 58 | Denel, W. M., 793* | McCarroll, William, 41* | Smith, R. D., 507 |
| Andrews, Warren S., 470* | Doherty, William, 538* | Moon, D. C., 793 | Snow, W. B., 431 |
| | Downs, L. A., 109 | Morrison, J. A., 276 | Stewart, Orlando, 470* |
| | | Osborne, T. M., 13* | Stone, Everett, 538 |
| Bardo, C. L., 25* | Eustis, J. E., 41* | | |
| Barnes, M. G., 106 | Ewald, F. G., 58 | Poole, A. J., 507 | Taylor, Hugh McGehee, 81 |
| Bassett, E. M., 41* | | Powell, Thomas C., 187* | Titus, F. M., 537 |
| Bell, Richard, 536 | Felton, S. M., 694* | | Thompson, A. W., 213 |
| Benjamin, Prof. C. H., 185 | Goss, W. F. M., 55 | Roberts, Duncan I., 699 | Von Schenk, Hermann, 79 |
| Blacklock, M. Stansfield, 604* | Gruber, J. M., 570* | Rosenbusch, Gilbert, 108 | |
| | | Rudd, A. H., 460* | |
| Carse, D. B., 506 | Hall, Walter P., 759 | | Westinghouse, George, 512 |
| Clapp, H. W., 762 | | Sague, J. E., 13* | Whipple, A. L., 634 |
| Coapman, E. H., 793* | Jackson, James F., 687* | Seaman, Henry B., 538 | Whittenberger, H. E., 470 |
| Cooley, Prof. M. E., 58 | Johnson, J. M., 732* | Shepard, O. M., 470* | Wilcox, W. R., 13* |
| Copley, Ariel B., 603 | | Shonts, T. P., 709* | Wigfus, William J., 55, 80* |
| Cotter, William, 742* | Keep, C. H., 41* | | Worthington, W. A., 603 |
| Cromble, David, 470 | | | |

OBITUARY.

[Portraits are indicated thus*.]

- | | | | |
|-----------------------------|---------------------------|--------------------------------|-----------------------------------|
| Angt, Robert, 699, 731 | Handy, Edward A., 667* | Lockwood, Col. F. St. J., 469 | Sanders, C. W., 570 |
| Bliss, William, 750* | Hayden, W. H., 79 | Macdonough, Augustus R., 109 | Seale, Jesse Newton, 635 |
| Bull, Storm, 667 | Hopkins, M., 763 | Matthews, Charles P., 731 | Sloan Samuel, 368, 421* |
| | Horton, Charles S., 731 | Murdock, Albert C., 469 | Spellman, Israel Munson, 187, 245 |
| Eakin, Captain Spencer, 731 | Howell, Corwin V., 667 | | Spencer, Samuel, 305 |
| Earle, Frank H., 602 | | Nye, Charles H., 79 | Staat, N., 635 |
| Ely, Hugh B., 570 | Ingersoll, George A., 336 | | Stout, Ferman J., 336 |
| Fox, Alexander M., 469 | Jones, Daniel, 25 | Parker, Luman F., 763, 793 | Thomson, Dr. William, 187 |
| | Kelvin, Lord, 763, 773* | Perkins, Charles E., 602, 617* | Wicker, Henry Clarkson, 368 |
| Gilleas, Michael, 667 | Lambert, Charles E., 731 | Rockwell, Charles H., 79 | Woodford, M. Dewitt, 336 |

ELECTIONS AND APPOINTMENTS.

- Alabama & Vicksburg, 79, 187, 188, (2) 275, 276
 Alabama Great Southern, 162, 401, 432, 603, 635, (2)
 Alabama Railroad Commission, 368
 Albany & Susquehanna, 469
 Ann Arbor, 276, 402, 603, 635, 731, 763
 Annapolis, Washington & Baltimore, 538
 Apalachicola Northern, 305, 431
 Arizona & Colorado, 431
 Arkansas, Louisiana & Gulf, 469, 470, 571
 Ashland & Western, 763
 Ashland, Odessa & Marengo, 79
 Astoria & Columbia River, 603
 Atchison, Topeka & Santa Fe, 80, 188, 337, 507, (2) 507, 537
 Atlanta, Birmingham & Atlantic, 469, 603
 Atlantic Coast Line, 80, 81, 162, (2) 187, 570, 667
 Atlantic, Quebec & Western, 432
 Baltimore & Ohio, 109, 162, 213, (2) 245, 306, 337, 402, 603
 Baltimore & Ohio Southwestern, 305
 Bangor & Aroostook, 402, 470
 Beaumont & Great Northern, 275
 Beaumont, Sour Lake & Western, 538, 603
 Bedford Stone Railway, 81
 Bessemer & Lake Erie, 432
 Birmingham & Atlantic, 162
 Birmingham Southern, 188
 Boca & Loyalton, 109
 Boston & Albany, 401, (2) 402, 471, 507, 538, 635, 668, 699, 700, 732
 Boston & Maine, 136, (2) 188, 469
 Boyne City, Gaylord & Alpena, 80
 Brinson Railway, 80
 Brookhaven & Pearl River, 81
 Brooklyn Rapid Transit, 80
 Buffalo & Susquehanna, 213, 245, 337
 Buffalo, Rochester & Pittsburgh, 52, 109, 471, 538, 571, 732, 794
 Butte County Railroad, 732
 Cache Valley, 368
 Cairo Northern, 80
 California Railroad Commission, 635
 Canadian Northern, 507, 764
 Canadian Pacific, 25, 162, 305, 432, 537, 570, 635, (2) 668, 731, 793
 Cape Girardeau, 187
 Central New England, 162
 Central of Georgia, 25, 80, (2) 109, 337, 469, 603, (2)
 Central of New Jersey, 80
 Central Vermont, 507, 538, 603, (2)
 Charlotte Harbor & Northern, 80
 Chesapeake & Ohio, 537
 Chester & Saline Valley, 187
 Chester Perryville, & Ste. Genevieve, 187
 Chicago & Alton, 25, 109, 136, (2) 188, 337, 401, 507, (2) 603, 667, 699, 700, 763
 Chicago & Calumet River, 80
 Chicago & Eastern Illinois, 306, 537, 603, 635
 Chicago & Illinois Midland, 162
 Chicago & Illinois Western, 80
 Chicago & North-Western, 188, 213, 245, 306, 470, (2) 506, 537, 570, 603, 699, 732, 763
 Chicago, Burlington & Quincy, 52, 188, 213, 276, 402, 432, 507, 538, 635, 732
 Chicago, Cincinnati & Louisville, 275, 276
 Chicago Great Western, 276, 337, 699
 Chicago, Indiana & Southern, 162, 732
 Chicago, Indianapolis & Louisville, 275, 306, 368, (2) 469
 Chicago Junction, 305, 432, 732
 Chicago, Lake Shore & Eastern, 337, 732
 Chicago, Milwaukee & St. Paul, 25, (2) 213, 368, (2) 570, 571, 793
 Chicago, Peoria & St. Louis, 732
 Chicago, Rock Island & Gulf, 162, 603
 Chicago, Rock Island & Pacific, 52, 81, 188, 213, 245, 305, 337, 401, 402, 431, 432, 507, 538, 571, 603, 635, (2) 668, (2) 699, 731, 732, 763
 Chicago, St. Paul, Minneapolis & Omaha, 506
 Chicago, Ziegler & Gulf, 603
 Chihuahua & Pacific, 109
 Cincinnati, Hamilton & Dayton, 570
 Cincinnati, New Orleans & Texas Pacific, 162, 187, 401, 432, 470, 668
 Cincinnati Southern, 699
 Cleveland, Cincinnati, Chicago & St. Louis, 136
 Colorado & Northwestern, 80, 81
 Colorado & Southern, 81, 276, 305
 Colorado Midland, 276, 337, 432
 Colorado Southern, New Orleans & Pacific, 52, 80, 109, 136, 305, 401, 538, (2)
 Corvallis & Eastern, 80, 109, 136, 635
 Cumberland & Pennsylvania, 162
 Delaware & Eastern, 81, 469
 Delaware & Hudson, 25, 52, 401, 431, 469, 699
 Delaware, Lackawanna & Western, 52, 570
 Denver & Rio Grande, 245, 276, (2) 337, 368, 537, 731
 Des Moines, Iowa Falls & Northern, 732, (3)
 Detroit & Mackinac, 431
 Detroit River Tunnel, 604
 Detroit, Toledo & Ironton, 402, 603, 604, 635, 732
 Duluth & Iron Range, 764
 Duluth, South Shore & Atlantic, 245
 Durham & Charlotte, 699, 731
 Elgin, Joliet & Eastern, 732
 El Paso & Southwestern, 432, 507, 731, 732
 Erie, 162, 213, 305, 306, 401, 402, 432, 507, 538
 Erie & Michigan Ry. & Navigation, 431
 Escanaba & Lake Superior, 162, (2)
 Eunice, Lafayette & Abbeville, 401
 Evansville & Terre Haute, 635
 Fitzgerald, Ocala & Broxton, 305
 Florida East Coast, 402, 432
 Galveston, Harrisburg & San Antonio, 276
 Galveston, Houston & Henderson, 570, (2)
 Georgia & Florida, 81, 763
 Georgia Coast & Piedmont, 80, 432
 Georgia, Florida & Alabama, 276, 305, 432
 Georgia Southern & Florida, 604
 Georgia State Railroad Commission, 245, 275
 Gila Valley, Globe & Northern, 603
 Grand Trunk, 52, (2) 136, 401, 402, (2) 432, 470, 538, 571, 604
 Grand Trunk Pacific, 275, 402
 Grand Trunk Western, 469
 Great Northern, 187, 188, 337, 432, 507, 537, 570, 699, 732
 Gulf, Colorado & Santa Fe, 188
 Gulf Line Railway, 603
 Halifax & Southwestern, 763
 Hidalgo & Northeastern, 245
 Hocking Valley, 188, 245, 402, 507
 Houston & Brazos Valley, 401
 Houston & Texas Central, 52, 188, 571
 Illinois Central, 25, (2) 26, 52, (2) 80, 109, (2) 188, 369, 507
 Illinois Southern, 337
 Illinois Valley Belt, 431
 Indianapolis & Louisville, 470
 Indianapolis Southern, 26
 Intercolonial, 213, 337, 700
 International & Great Northern, 368, 635, 699, 763
 Inter-oceanic of Mexico, 80, 162
 Iowa Central, 136
 Isthmian-Canal Commission, 136
 Jamestown, Chautauqua & Lake Erie, 432
 Kalamazoo, Lake Shore & Chicago, 162, 305
 Kansas City, Mexico & Orient, 603
 Kansas City Southern, 401, 507, 538, 603, 635, 699
 Kansas Railroad Commission, 368
 Keweenaw Central, 432
 Kingston & Pembroke, 162
 Lake Erie & Western, 668
 Lake Erie, Alliance & Wheeling, 668
 Lake Shore & Michigan Southern, 402, 668, 732, 793
 Las Vegas & Tonopah, 109
 Lehigh & New England, 80, 432, 506, 501, 604, 763
 Lehigh Coal & Navigation, 506
 Lehigh Valley, 162, 432, 537, 539, 570, 603, 635, 667, 763
 Litchfield & Madison, 162
 Louisiana Railway & Navigation, 603, 699, 732
 Louisiana Western, 337
 Louisville & Atlantic, 603
 Louisville & Nashville, 109, 188, (2) 276, 306, 507, 538, 570, 699, 732
 Louisville, Henderson & St. Louis, 162, 368
 McCloud River, 162
 Mt. Jewett, Kinzua & Ritterville, 507
 Maine Central, 109
 Malheur Valley, 81
 Manistee & Northeastern, 764
 Manitoulin & North Shore, 81
 Massachusetts Railroad Commission, 731
 Mexican Central, 52, 136, 188, 245, 246, 276, 305, 337, 402, 635, 668, 699
 Mexican International, 81, 162, 245, 668
 Mexican Northern, 732
 Mexican Southern, 136, 732
 Michigan Central, 81, 402, 432
 Midland Valley, 603, 604
 Mineral Range, 245
 Mindoka & Southwestern, 81
 Minneapolis & St. Louis, 136
 Minneapolis, St. Paul & Sault Ste. Marie, 81, 732
 Minnesota & International, 162
 Mississippi Eastern, 80
 Missouri & Louisiana, 305
 Missouri, Kansas & Texas of Texas, 337, 507, 603
 Missouri, Oklahoma & Gulf, 470
 Missouri Pacific, 81, 109, 136, 188, (2) 276, 305, 306, 368, 432, 571, 603, 668, (2) 700, 732, (3)
 Missouri Southern, 305, 431, 432, (2)
 Mobile & Ohio, 668, 699
 Mobile, Jackson & Kansas City, 80, 109, (2) 275, 276, 337, 470, 571
 Nashville Terminal Company, 213
 National Lines of Mexico, 81, (3)
 National Railroad of Mexico, 81
 Nebraska Railroad Commission, 368
 Nevada Railroad Commission, 368
 New Jersey, Indiana & Illinois, 732
 New Jersey Railroad Commission, 337, 369
 New Orleans & North-Eastern, 80, 136, 187, 188, (2) 275, 276
 New Orleans, Fort Jackson & Grand Isle, 162
 New Orleans Great Northern, 337, 604
 New Orleans Terminal, 337
 New York Central & Hudson River, 25, 52, 80, 109, 162, 276, 337, 401, (2) 402, 507, 538, 571, (2) 700, 764
 New York Central Lines, 136, 507, 603, 604
 New York, Chicago & St. Louis, 162, 245, 538
 New York, New Haven & Hartford, 25, 109, 162, (2) 188, 368, (2) 431, 470, 570, 763, (2)
 New York Public Service Commissions, 25, 80, 506, 538
 Norfolk & Western, 26, 52
 Northern Alabama, 763
 Northern Central, 162, 337
 Northern Pacific, 26, (2) 188, 306, 431, 507, 538, 603, 699, 732
 Northwestern Pacific, 305
 Ohio River & Columbus, 793
 Oklahoma Central, 162, 275, 431, 432
 Oklahoma Railroad Commission, 668
 Orange & Northwestern, 401, 539
 Oregon Railroad & Navigation, 109, 276, 635
 Oregon Railroad Commission, 368
 Oregon Short Line, 81, 188, 306, 337, 432, 635, 732, 763
 Pacific & Idaho Northern, 81, 213, 432
 Panama, 305, 470, 571
 Pan-American, 763
 Paris & Great Northern, 305
 Pennsylvania, 109, 136, 162, 337, 507, 571, (2) 635, 636, 764
 Pennsylvania Lines West, 306, 668
 Peoria & Eastern, 52, 136
 Peoria & Pekin Union, 763
 Peoria Railway Terminal, 432
 Pere Marquette, 337, 763
 Philadelphia & Reading, 26, 52, 470
 Philadelphia, Baltimore & Washington, 162
 Pittsburgh & Lake Erie, 369, 732
 Pittsburgh, Allegheny & McKee's Rocks, 80
 Portland & Seattle, 507, 732, (2) 763
 Pullman Company, 763
 Prescott & Northwestern, 432
 Prince Edward Island, 213
 Quebec & Lake St. John, 763
 Quebec, Montreal & Southern, 700
 Randolph & Cumberland, 52
 Raritan River, 305, 731
 Rhode Island Railroad Commission, 337
 Rio Grande Junction, 538, 571
 Rio Grande, Sierra Madre & Pacific, 80
 Rio Grande Southern, 699
 Rio Grande Western, 81, 337, 368, 432, 538
 St. Johnsbury & Lake Champlain, 188
 St. Joseph & Grand Island, 52, 81, 136, 187, 305, 699, 732
 St. Joseph Valley, 431
 St. Louis & San Francisco, 26, 52, 162, 245, 305, 337, 603, 635
 St. Louis, Brownsville & Mexico, 81, 109, 432, 538, 668, 700
 St. Louis, Iron Mountain & Southern, 25, 401, 432, 668, (2)
 St. Louis, Rocky Mountain & Pacific, 401
 St. Louis Southwestern of Texas, 431, 571, (2)
 St. Louis, Watkins & Gulf, 432
 Santa Fe Central, 188, 432
 Santa Fe, Raton & Eastern, 731
 Seaboard Air Line, 26, 162, 188, 213, 276, 402, 432, 507, 538, 732
 Shreveport, Houston & Gulf, 80
 Sierra Madre & Pacific, 80
 Sierra Valley Railway, 81
 Silver Lake Railway, 80
 Silver Peak, 763
 Somerset Railway, 81, 432
 Sonora Railway, 431
 South & Western, 732
 Southern, 80, 162, 276, 369, 401, 432, 571, 668, 732, 763, 764, 793
 Southern Indiana, 507
 Southern Pacific, 52, 213, 245, 306, 432, 571, 603, 699, 763
 Susquehanna, Bloomsburg & Berwick, 162
 Tampa & Jacksonville, 699
 Tampa Northern, 337
 Tehuantepec National, 26, 305, 306, 603, 731
 Texas & New Orleans, 52
 Texas & Pacific, 368, 432, 470
 Texas Central, 276
 Timpson & Northwestern, 432
 Toledo & Indiana, 368
 Toledo & Ohio Central, 402
 Toledo, Angola & Western, 213
 Toledo Railway & Terminal, 401
 Toledo, St. Louis & Western, 507, (2) 603, 635, 699, 700, 763
 Tonopah & Goldfield, 539, 570
 Tonopah & Tidewater, 305, 401, 402
 Toronto, Hamilton & Buffalo, 80
 Tremont & Gulf, 81, 431
 Trinity & Brazos Valley, 81, 213, 276, 635
 Union Pacific, 52, 136, 337, 432, 470, 471, 537, 571, 603, 635
 Vera Cruz & Pacific, 507
 Vicksburg, Shreveport & Pacific, 80, 187, 188, (2) 276
 Virginia & Southwestern, 187, 188
 Virginian Railway, 136, 187, 213
 Wabash, 276, 337, (2) 603, 668
 Wabash, Chester & Western, 52
 Washington & Columbia River, 26, (2)
 West Jersey & Seashore, 162
 Western Maryland, 81, 109, 470, 507
 Western Pacific, 109, 635, 731
 Wheeling & Lake Erie, 52, 470
 Wisconsin & Northern, 731
 Wisconsin Central, 431, 731, 793, 794
 Wisconsin State Railroad Commission, 136, 162, 245
 Wrightsville & Tennesse, 432, (2)
 Yazoo & Mississippi Valley, 25, 26, (2)
 Zanesville & Western, 402

RAILROAD CONSTRUCTION.

- Aberdeen & Tombigbee, 701
Adirondack & St. Lawrence, 83
Akron & Youngstown (Electric), 701
Alabama & Northwestern, 605
Alabama Roads (Electric), 434
Alabama Western, 402
Alaska Home (Electric), 338
Alaska Roads, 53
Alberta & Northwestern, 794
Alberta Wheat, Coal & Oil Co., 137
Alexandria, Zimmerman & Northwestern, 110
Allegheny Coal Railroad, 636
Alva & Southern, 434
American Midland, 110
American Railroad of Porto Rico, 605
Annapolis, Washington & Baltimore, 472
Apalachian Interurban, 370
Apalachicola Northern, 307
Arizona & California, 434
Arkansas Anthracite, 110
Arkansas, Louisiana & Gulf, 27, 338, 402
Arkansas Valley, 434
Ashcroft, Bakersville & Fort George, 636
Ashland & Western, 765
Ashland, Odanah & Marengo, 83
Atholton, Topeka & Santa Fe, 27, 53, 246, 307, 403, 434, 509, 572, 636, 701, 733
Atlanta & Carolina Construction Co. (Electric), 110
Atlanta & St. Andrew's Bay, 215, 733
Atlanta, Birmingham & Atlantic, 137, 163, 189, 338, 472, 669, 733
Atlanta, Griffin & Macon, 27
Atlantic & East Coast Terminal, 370
Atlantic & Gulf Transportation Co., 163
Atlantic City Railway (Electric), 572
Atlantic Coast Line, 794
Atlantic, Northern & Southern, 110
Atlantic, Quebec & Western, 215
Atlantic Shore Line (Electric), 137
Bainbridge Northeastern, 338
Ballinger & Abilene, 636
Baltimore & Ohio, 509, 572, 669
Bangor & Aroostook, 540
Barwell & Searchlight, 434
Bartlesville Interurban, 472
Baton Rouge, Hammond & Eastern, 636
Bauxite & Northern, 28
Beaumont & Great Northern, 246, 472, 540
Beaumont & Saratoga Transportation, 733
Beaumont, Sour Lake & Western, 110
Belleville & Interurban, 572
Big Fork & International, 733
Big Fork & International Falls, 540
Billings & Northern, 636
Bingham Central, 277
Bloomington, Pontiac & Joliet (Electric), 572
Bloomington Southern, 403
Boston & Albany, 472
Boston & Eastern (Electric), 509
Boston & Providence Interurban, 338
Boston Elevated, 765
Brandon, Saskatchewan & Hudson's Bay, 83, 636
Brinson Railway, 83
Bristol & Kingsport, 572
British Columbia (Electric), 247, 370, 765
Brooklyn Rapid Transit, 338
Brockville & Mahoning, 247, 572, 733
Buckhannon & Northern, 53
Buffalo & Susquehanna, 540
Buffalo, Rochester & Pittsburgh, 307, 370
Bullfrog-Goldfield, 307
Butler & Chicora (Electric), 509
Butte, Anaconda & Pacific, 83
Cache Valley, 307
Calro & Tennessee River, 434
Calro Terminal Traction, 53
Calgary (Alb.) Street Railway, 472
Caliente & Pioche, 247
California Northeastern, 472
California Roads, 137
Canadian Northern, 370, 403, 636, 701, 765
Canadian Northern Ontario, 701
Canadian Northern Quebec, 307
Canadian Pacific, 137, 215, 247, 277, 307, 338, 370, 472, 540, 572, 605, 636, 701, 733, 765
Cananea, Yaqui River & Pacific, 53, 215, 403, 540, 765
Canyon City & Northeastern, 53
Cape Fear, Southport & Atlantic, 53
Caro Northern, 83
Carolina & Tennessee Southern, 472
Carthage Railroad, 53
Catawba Valley, 605
Central Kentucky Traction, 189
Central of Georgia, 247, 307, 338
Central of Oregon, 605, 733
Central Ontario Railway, 605
Centralia Eastern, 605
Charleston & Paris Interurban, 540
Charleston, Westfield, Marshall & Terre Haute Interurban, 110
Charlotte Harbor & Northern, 110, 434, 733
Cherryvale, Oklahoma & Pacific, 83
Cherry Tree & Dixonville, 733
Chesapeake & Ohio, 27, 83, 370, 434, 765, 794
Chesterfield & Lancaster, 110
Chicago & Alton, 53, 247, 434
Chicago & East St. Louis Short Line, 572
Chicago & Illinois Midland, 83
Chicago & Joliet (Electric), 572
Chicago & Milwaukee (Electric), 403, 572
Chicago & North-Western, 83, 110, 215, 307, 370, 540, 733
Chicago & Oak Park Elevated (Electric), 215
Chicago & Southern Traction, 636
Chicago, Burlington & Quincy, 111, 189, 277, 434, 540, 572, 605, 636, 733
Chicago, Fox Lake & Geneva, 572
Chicago, Indiana & Southern, 733
Chicago, Indianapolis & Evansville, 27, 540
Chicago, Indianapolis & Louisville, 434
Chicago, Milwaukee & St. Paul, 83, 189, 339, 509, 689, 765
Chicago, Rock Island & El Paso, 370
Chicago, Rock Island & Gulf, 111, 370
Chicago, Rock Island & Pacific, 53, 189, 215, 370, 509, 605, 765
Chicago, St. Paul, Minneapolis & Omaha, 247, 370, 605
Chicago Southern, 53, 403
Chicago Subway, Arcade & Traction Co., 53
Chicago, Weatherford & Brazos Valley, 540
Cincinnati (Ohio), Belt Lines, 111, 572
Cincinnati, Bluffton & Chicago, 669
Cincinnati, Hamilton & Dayton, 434
Clark-Rochester Railroad, 137
Cleveland, Alliance & Mahoning, 247
Cleveland, Cincinnati, Chicago & St. Louis, 277, 509, 701
Coal River, 434, 765
Coffeyville & Memphis, 540
Colorado & Southern, 103, 371
Colorado, Oklahoma & Southeastern, 27
Colorado Roads, 403, 472
Colorado Roads (Electric), 434
Colorado Southern, New Orleans & Pacific, 111, 247
Columbus, Magnetic Springs & Northern (Electric), 669
Columbus, Memphis & Pensacola, 111
Continental Tunnel Co., 434
Copper River & Northwestern, 605
Corvallis & Alsea River, 189
Coweta, Franklin & Troup, 339
Crow's Nest Southern, 636
Cumberland River & Nashville, 636
Cumberland Valley, 403
Dakota & Great Northern, 636
Dallas Interurban, 509, 605
Danville & Eastern Illinois (Electric), 371
Danville & Scottsville, 247
Danville & Southeastern, 339
Decatur, Sullivan & Mattoon (Electric), 540
Defiance, Hicksville & Fort Wayne (Electric), 53
Defiance, Paulding & Fort Wayne (Electric), 111
Delaware & Hudson, 701, 794
Denver & Gulf, 307, 338
Denver & Rio Grande, 472, 637
Denver, Kansas & Gulf, 434
Denver, Laramie & Northwestern, 371
Denver, Northwestern & Pacific, 339, 403, 434, 765
Detroit & Adrian Traction, 163
Dillsburg & Wellsville, 403
Dolgeville & Salisbury, 111
Due West Railway, 403
Duluth & Thunder Bay, 669
Duluth, Rainy Lake & Winnipeg, 247, 733
Duluth, Virginia & Rainy Lake, 247
East Carolina, 733
East Erie Commercial Railroad, 509
East Moline & Campbell's Island, 137
East St. Louis & Eastern, 215
Eastern Pennsylvania (Electric), 572
Edmonton, Dunvegan & British Columbia, 669
Elkins Light & Power Co. (Electric), 339
El Paso & Southwestern, 83
Elyria Southern (Electric), 111
Enid, Blackwell & Osage Interurban, 137
Ensley Southern, 472
Erie, 137, 339
Erie, London & Tilsonburg (Electric), 637
Esquimaux & Nanaimo, 247, 637, 733
Euclid, Lafayette & Abbeville, 371
Eureka Hill, 83, 164
Evansville & Princeton Traction, 215
Evansville & Terre Haute, 434, 509
Fairmont & Mannington (Electric), 53
Fairmont & Southern, 277, 339, 472
Findlay-Marion Railway & Light Co., 339
Flint River & Gulf, 307
Florida Central, 111
Florida East Coast, 701
Fort Worth & Rio Grande, 189, 339
Franklin & Townsensing Street Railway, 137
Gainesville, Texas & Southwestern, 111
Galveston & Houston (Electric), 509
Galveston, Harrisburg & San Antonio, 733
Gaulay & Birch River, 403
Georgia & Florida, 277
Georgia-Carolina Railway (Electric), 371
Georgia Roads (Electric), 164, 701, 765
Gilmore & Petersburg, 572
Gotebo & Southwestern, 541
Grand Trunk, 137, 277, 371, 541
Grand Trunk Pacific, 83, 137, 215, 277, 403, 434, 472, 669, 701, 733
Granite City & East St. Louis, Terminal Ry. Co., 435
Grassy Creek & Elkhorn, 27
Gray's Point Terminal, 307
Great Northern, 83, 277, 307, 371, 403, 434, 605, 637, 733
Great Southwestern, 164
Greenville & Knoxville, 164, 277, 605
Guelph & Goddard, 572
Gulf, Beaumont & Great Northern, 473
Gulf, Beaumont & Kansas City, 473
Gulf, Colorado & Santa Fe, 83, 137, 189, 403, 473, 794
Gulf Line, 307
Gulf, Plainville & Northern, 189
Gulf Short Line, 473
Guthrie, Fairview & Western, 701
Hawkinsville & Florida Southern, 307
Heard County, 27
Hidalgo & Northeastern, 637
Holly & Swink, 435
Houston & Brazos Valley, 27, 541
Houston & Texas Central, 701
Idaho & Washington Northern, 701
Idaho Northern, 111
Illinois & Northwestern (Electric), 111
Illinois Central, 403, 435, 572, 637, 669, 701, 733
Illinois Roads (Electric), 669
Illinois Traction, 277, 339, 371, 637, 794
Indian Creek Valley, 247
Indian Territory Roads (Electric), 83
Indiana Roads (Electric), 765
Indianapolis & Louisville, 435
Indianapolis & Northwestern Traction, 403
Industrial of Lorain, 765
Interborough Rapid Transit (New York City), 765
Interborough Rapid Transit, 403
Inter-California, 509
Intercolonial, 307, 701
Interstate Transfer Railway, 164, 371
Interurban Construction Co., 247
Iowa & Northwestern, 541
Iowa Roads (Electric), 435
Jasper & Eastern, 435
Jasper-French Lick Extension, 473
Jefferson City, Albuquerque & San Diego Valley, 605
Joliet & Southern Traction, 371
Joplin & Pittsburgh (Electric), 277, 339
Joplin & Pittsburgh Street Railway, 277
Kansas & Texas, 541
Kansas City & Springfield Southern (Electric), 435
Kansas City, Mexico & Orient, 83, 164, 733
Kansas City Southern, 137, 669
Kansas Traction Co., 247
Kentucky North & South, 111, 509
Kentucky Roads (Electric), 541
Kettle Valley Lines, 669
Keweenaw Central, 733
Kingston, Smith's Falls & Ottawa, 277
Lake Erie, Alliance & Wheeling, 247, 669
Lake Erie & Youngstown (Electric), 247
Lake Shore & Michigan Southern, 247, 307, 669
Lake Shore Electric, 435
Laramie, Hahns Peak & Pacific, 83
Larimer & Routt County, 307
Las Vegas & Tonopah, 137
Lawton, Wichita Falls & Northwestern, 541
Lehigh & Lake Erie, 339, 637
Lehigh Valley, 339, 637
Lewiston & Southeastern, 164
Ligonier Valley, 669
Lima & Toledo Traction, 605, 701
Long Island, 53, 137, 164, 733
Lorain & Ashland, 27, 403, 765
Lorain & West Virginia, 371
Lorain, Ashland & Southern, 765
Los Angeles & Redondo (Electric), 765
Louisiana & Pacific, 111
Louisville & Nashville, 189, 541
McAlester Southwestern, 164
Macon, Americus & Albany (Electric), 83
Madison County Interurban Belt, 111
Malheur Valley, 83
Manistique Railway, 765
Manitoba & Northwestern, 637
Marietta-Macdonald, 669
Meadville & Conneaut Lake Traction, 669
Medina, Batavia & Ontario (Electric), 277
Memphis & Chattanooga, 473
Memphis & State Line, 403
Memphis Railroad & Terminal, 403
Mettowee Valley, 111
Mexican Central, 137, 278, 509, 541, 605, 637
Mexican International, 111
Mexican Milling & Transportation Co., 247
Mexican Pacific, 247, 371
Mexican-Pacific Coast, 765
Mexican Roads, 53, 111, 137, 189, 403, 509, 542
Mexican Roads (Electric), 27
Mexican Southern, 27
Mexico, Santa Fe & Perry Traction, 605
Michigan Roads, 83, 247
Midcontinental Traction, 247
Middle Carolina & Western, 371
Midland of Manitoba, 637
Midland Valley, 111, 247, 541
Milwaukee Northern (Electric), 137, 339, 573
Mingo & Monongahela, 435
Minneapolis & Rainy River, 765
Minneapolis & St. Louis, 27, 215, 307
Minneapolis, Kansas City & Gulf, 215
Minneapolis, St. Paul & Sault Ste. Marie, 247, 509, 669, 765
Minneapolis, St. Paul, Rochester & Dubuque (Electric), 435
Minnesota & International, 733
Minnesota, Dakota & Pacific, 27, 215, 307
Minnesota Transfer Railway, 765
Mississippi & Alabama, 403
Mississippi Central, 83
Mississippi Railway, 371
Mississippi Roads (Electric), 189
Mississippi Valley (Electric), 247
Missouri & North Arkansas, 371, 573, 794
Missouri, Kansas & Texas, 53, 111, 339, 473, 701
Missouri, Oklahoma & Gulf, 541, 701, 733
Missouri Pacific, 541, 573, 637
Missouri River & Northwestern, 27
Missouri Roads, 27
Missouri Roads (Electric), 509, 605
Missouri Southern, 403
Mobile, Jackson & Kansas City, 111
Morganfield & Atlanta, 541
Morgan's Louisiana & Texas, 605, 765
Morgantown & Kingwood, 53
Mount Vernon & Eastern, 403
Muskegon Railway & Navigation Co., 371
Nashville, Chattanooga & St. Louis, 111
Nashville, Shelbyville & Decatur, 27

RAILROAD CONSTRUCTION—Continued.

- National Lines of Mexico, 138
 National of Mexico, 28, 637
 Nebraska, Kansas & Southern, 765
 Nevada & California, 111
 Nevada Roads, 55, 569
 New Jersey Roads (Electric), 27
 New Orleans Great Northern, 53, 403
 Newport & Norman, 541
 Newport & Sherman's Valley, 573
 New York & Long Island, 473
 New York & Stamford (Electric), 637
 New York, Auburn & Lansing, 111
 New York Central & Hudson River, 164, 339, 637, 733
 New York City Railway, 53
 New York City Roads, 83
 New York, New Haven & Hartford, 435, 573
 New York, Pittsburgh & Chicago (Electric), 704
 New York Subways, 215, 403, 473, 509
 New York, Westchester & Boston, 403
 Niagara, St. Catharines & Toronto, 733
 Norfolk & Southern, 83, 435, 605
 Norfolk & Western, 339, 605
 North & South, 701
 North & South Texas, 27, 473
 North Yakima & Valley, 83
 Northern Dakota, 435
 Northern Electric, 371, 435
 Northern Electric of California, 435
 Northern of Maine, 403
 Northern Pacific, 541, 605, 637
 Northwestern Pacific, 403, 435, 702, 733
- Oaxaca & Ejutla, 111
 Ocean Shore (Electric), 247
 Ohio River & Northern, 307
 Ohio Roads (Electric), 340
 Oklahoma & Golden City, 28
 Oklahoma Central, 164, 573
 Oklahoma City (Electric), 473
 Oklahoma City Railway, 404
 Oklahoma, Mexico & Pacific, 573
 Oklahoma Railway, 473
 Okolona-Big Creek, 473
 Omaha & Nebraska Central (Electric), 435
 Omaha, Lincoln & Beatrice (Electric), 53
 Omaha, Newport & Northern, 573
 Ontario & West Shore (Electric), 702
 Ontario Roads (Electric), 53, 637
 Opelousas, Gulf & Northeastern, 307, 473
 Open River Railway & Navigation, 28
 Oregon & Washington, 83, 605, 637
 Oregon Railroad & Navigation Company, 83, 404, 605, 637
 Oregon Roads, 83
 Oregon Short Line, 83, 404, 637
 Oregon Trunk Line, 164, 605
 Oregon, Washington & Idaho, 541
 Overton County, 111
- Pacific & Eastern, 1138
 Pacific & Idaho Northern, 765
 Pecos Springs & Del Norte, 278
 Faragould & Memphis, 111
 Farall & Durango, 509
 Pecos & Northern Texas, 435
 Pecos, Saragosa & Balmorhea, 541
 Pennsylvania, 28, 111, 189, 247, 404, 435, 573, 669, 702, 733
 Pennsylvania Lines West, 138, 541
 Pennsylvania Roads, 435, 509, 573
 Pennsylvania Roads (Electric), 247, 509
 Pennsylvania Southern, 542
 Pennsylvania Tunnel & Terminal, 28
 Pensacola & Northeastern, 189
 Pensacola, Alabama & Georgia, 53
 Pensacola, Alabama & Western, 189
 Peoples' Railway & Construction Company, 111, 340, 404
 Peoria & St. Louis, 111
 Peoria Northern, 112
 Philadelphia & Reading, 404, 509, 637
 Philadelphia, Delaware & Montgomery (Electric), 573
 Philadelphia Subway Terminal, 473
 Pierre, Rapid City & North-Western, 83
 Pittsburgh & Lake Erie, 371, 509
 Pittsburgh, Binghamton & Eastern, 278
 Pittsburgh Railway & Light Company, 278
 Pittsburgh Railways Company (Electric), 605
 Pittsburgh, Shawmut & Northern, 247, 573, 733
 Plant City, Arcadia & Gulf, 605
 Portland & Seattle, 542, 765
 Port O'Connor, Rio Grande & Northern, 340
 Port Simpson & Skeena River, 765
- Potts Creek, 435
 Public Belt Railroad, 83
 Public Service Corporation of New Jersey, 702
 Public Service Railway, 702
 Puget Sound International Railway & Power Company, 371
- Quebec & Lake St. John, 138, 435, 605
 Quebec, Montreal & Southern, 702
- Randolph & Cumberland, 53
 Red River (Electric), 605
 Richmond & Tottenville (Electric), 404
 Rio Grande, Sierra Madre & Pacific, 83, 404, 669
 Robert Lee & Fort Chabourne, 371, 605
 Rochester, Scottsville & Caledonia (Electric), 340
 Rogers Southwestern (Electric), 435
 Roswell & Eastern, 371
 Russellville & Ozark Mountain Traction, Light & Power Company, 215, 340
- St. Francis, 112
 St. Joseph Valley, 435
 St. Louis & San Francisco, 112, 164, 189, 247, 340, 435, 702
 St. Louis & Staunton, 638
 St. Louis, Bartlesville & Pacific, 435, 542
 St. Louis, Brownsville & Mexico, 542
 St. Louis, Iron Mountain & Southern, 542, 638
 St. Louis, Mountain Grove & Southern, 28
 St. Louis, Rocky Mountain & Pacific, 573
 St. Louis Southwestern, 307, 473, 734
 St. Louis Southwestern of Texas, 734
 Sacramento Valley & Eastern, 53, 112
 San Antonio & Aransas Pass, 638
 San Antonio & Mexico, 510
 San Diego & Arizona, 371
 San Francisco, Idaho & Montana, 247, 307
 San Joaquin Valley Western, 248
 San Pedro, Los Angeles & Salt Lake, 164, 248
 Santa Fe, Liberal & Englewood, 734
 Saratoga & Encampment, 307
 Saskatoon, Saskatchewan, Peace River & Dawson, 573
 Savannah, Augusta & Northern, 28
 Seaboard Air Line, 307, 605
 Shamokin & Edgewood (Electric), 510
 Shasta Southern, 435
 Shawnee Central, 54, 340
 Shelby County (Electric), 404
 Shreveport, Alexandria & Southwestern, 112
 Shreveport, Houston & Gulf, 83
 Sierra Madre & Pacific, 83
 Sikeston & Southeastern, 54
 Somerset & Nashville, 215
 South & Western, 573, 669
 South Carolina Roads (Electric), 215
 South Dakota Central, 164, 248, 733
 South Dakota Roads, 248
 South Georgia-West Coast Railway, 734
 South Shore Traction, 215
 Southern, 371, 436, 473, 734
 Southern Indiana, 54
 Southern Pacific, 28, 54, 112, 215, 278, 307, 340, 371, 404, 473, 510, 542, 573, 605, 669, 734, 765
 Southern Pennsylvania, 669
 Southern Railway, 307
 Southern Utah, 638
 Southern Wisconsin (Electric), 248
 Southwestern Interurban of Mangum, 404
 Southwestern Railway, 189
 Spartanburg & Northern, 670
 Spokane & Inland, 54, 138
 Spokane & Inland Empire (Electric), 83
 Spokane Falls & Great Northern, 605
 Springfield Belt Railway (Electric), 371
 Stephenville North & South Texas, 248, 308, 436
 Sulphur, Colgate & Southeastern, 278
 Sugarland Railway, 189
- Tacoma Eastern, 83
 Tacoma-Seattle Short Line (Electric), 573
 Tallulah Falls, 164
 Tampa Northern, 83
 Tanana Valley, 340
 Taylor, Somerville & Gulf, 83, 340
 Tecolote Valley, 83
 Temiskaming & Northern Ontario, 215, 573, 702, 734, 794
 Tennessee & Carolina Southern, 473
 Tennessee & Georgia Interurban, 112
 Tennessee Railway, 308, 734
- Texas & Gulf, 473
 Texas & New Mexico, 702
 Texas & New Orleans, 734
 Texas & Pacific, 138, 308, 473, 734
 Texas Central, 542
 Texas City Terminal, 638
 Texas Interurban, 84
 Texas Midland, 573
 Texas Roads, 84, 138, 190, 510, 573, 605, 670
 Texas Roads (Electric), 436, 510, 606
 The Suffolk Syndicate Company, 112
 Tidewater Electric, 278
 Tintic Railroad, 670
 Toledo & Fort Wayne (Electric), 138
 Toledo Junction, 340
 Toledo, St. Louis & Western, 84, 248, 734
 Tombigbee Valley, 670
 Tonopah & Goldfield, 308
 Tonopah & Tidewater, 278, 606
 Topeka-Southwestern, 574
 Tremont & Gulf, 436
 Trinity & Brazos Valley, 371
 Tulsa-Sapulpa Interurban, 606
 Tuscarawas Valley Transit & Power Co., 638
 Twin City & Lake Superior (Electric), 473
- Union Central, 308, 573
 Union Pacific, 112, 190, 404, 436, 542, 606, 638, 670
 United Railways Company of St. Louis, 702
 Utica & Mohawk Valley (Electric), 54
- Vallejo & Northern (Electric), 371
 Valley Railroad of West Virginia, 216
 Valley River, 54, 702
 Valley Transit Light & Power Co., 216
 Vancouver Island & Eastern, 542
 Vancouver, Victoria & Eastern, 371, 436, 606, 638, 734
 Vancouver, Westminster & Yukon, 278
 Velasco, Brazos & Northern, 28
 Vera Cruz Terminal, 542
 Victoria Ferry & Railway Co., 638
 Virginia Air Line, 371, 436
 Virginia-Carolina Railway, 84
 Virginian Railway, 84, 404
 Virginian Railway, 165
- Wabash, 371, 765
 Waco, Hamilton & Brownwood, 84, 404, 510
 Wagon Lake Shore & Armour Traction, 248
 Warrensburg & Clinton, 436
 Washington & Great Northern, 606, 638
 Washington, Baltimore & Annapolis (Electric), 473, 670
 Washington, Berwyn & Laurel (Electric), 474
 Washington, Frederick & Gettysburg (Electric), 371, 542
 Washington-Oregon Traction, 670
 Waynesburg & Washington, 542
 Weatherford, Mineral Wells & North-Western, 734
 West Penn Railways (Electric), 574
 West Side Belt, 638
 West Texas & Northern, 606
 Westchester & Wilmington (Electric), 670
 Western & Atlantic, 54
 Western Illinois Traction, 510
 Western Pacific, 84, 138, 371, 670
 Western Railway of Mexico, 112
 Wheeling & Lake Erie, 340
 White Deer & Logan, 216
 White River Valley, 84
 Wichita, Cleveland & Gulf, 372
 Wichita Falls & Northwestern, 84, 308, 702
 Winnebago Traction Co., 404
 Wisconsin & Northern, 734
 Wisconsin Central, 138, 190, 372, 510, 542, 734
 Wisconsin Midland, 248
 Wisconsin Roads (Electric), 510
 Wolfe, Megantic & Lotbiniere, 190
 Woodstock, Marengo, Genoa & Sycamore (Electric), 606
 Wyoming Roads (Electric), 278
 Wyoming Short Line, 670
 Wyoming Western, 28
- Yankton Southern, 138
 Yankton, Wichita & Houston, 476
 Yazoo & Mississippi Valley, 434, 734
 Yellowstone Park Railroad, 84
 York Railways Co., 794
 Yosemite Valley, 84
 Youghiogheny & Cheat River, 372
 Youngstown & Ohio River, 308

RAILROAD CORPORATION NEWS.

- Alabama Great Southern, 702
 Alabama Terminal Company, 190
 Albany & Susquehanna, 372
 American Light & Traction Company, 112, 278
 American Railways Co., 28
 Apalachicola Northern, 308
 Arkansas Valley, 308
 Ashland & Western, 734
 Atchison, Topeka & Santa Fe, 28, 84, 138, 164, 308, 670
 Atlanta, Birmingham & Atlantic, 54, 190
 Atlantic Coast Line, 638, 765
 Atlantic Shore Line, 138
 Aurora, Elgin & Chicago, 340
- Bald Eagle Valley, 84
 Baltimore & Ohio, 54, 109, 138, 216, 474, 574, 734, 794
 Baltimore, Chesapeake & Atlantic, 54
- Bangor & Aroostook, 84
 Beaumont, Sour Lake & Western, 248
 Birmingham, Railway Light & Power, 216
 Bloomington, Pontiac & Joliet Electric, 510
 Boston & Albany, 670
 Boston & Lowell, 54
 Boston & Maine, 54, 278, 372, 404, 474, 638
 Boston & New York Air Line, 436
 Boston & Northern Street Railway, 670
 Boston & Worcester Street, 574
 Brooklyn Rapid Transit, 308, 436
 Broxton, Hazlehurst & Savannah, 28
 Buffalo & Susquehanna, 54, 138
 Buffalo, Rochester & Pittsburgh, 112, 138, 436
 Buffalo Terminal Association, 84
 Burr's Ferry, Brownell & Chester, 702
- Canada Atlantic, 308
 Canada Southern, 670
 Canadian Northern, 308, 702
- Canadian Pacific, 404, 436
 Central of Georgia, 138, 190, 248, 278, 510, 542, 670
 Central Vermont, 542
 Chesapeake & Ohio, 28, 164, 542
 Chicago & Alton, 28, 248, 372, 404
 Chicago & Eastern Illinois, 54
 Chicago & Illinois Western, 216
 Chicago & Milwaukee Electric, 474
 Chicago, Burlington & Quincy, 28, 112, 216, 308, 340, 474, 574, 702
 Chicago Electric Traction, 138
 Chicago Great Western, 164, 308, 734
 Chicago, Indiana & Southern, 670
 Chicago, Indianapolis & Louisville, 638
 Chicago Junction, 606
 Chicago, Milwaukee & St. Paul, 248, 340, 474
 Chicago, Peoria & St. Louis, 54, 706
 Chicago Railways Company, 84
 Chicago, Rock Island & El Paso, 54

RAILROAD CORPORATION NEWS—Continued.

- Chicago, Rock Island & Pacific, 28, 278, 766
 Chicago Southern, 54
 Chicago Terminal Transfer, 112, 216, 474, 574
 Chicago Union Traction, 84, 112, 638, 734
 Cincinnati, Hamilton & Dayton, 474, 574
 Cincinnati, New Orleans & Texas Pacific, 670
 Cleveland & Pittsburgh, 510
 Cleveland, Cincinnati, Chicago & St. Louis, 216, 670
 Coal & Coke, 474
 Colorado & Southern, 278
 Colorado & Wyoming, 702
 Colorado Southern, New Orleans & Pacific, 28, 248
 Coney Island & Brooklyn (Electric), 308
 Connecticut Railway & Lighting Company, 606
 Consolidated Railway, 606
 Council City & Solomon River, 474
- Delaware & Hudson, 84, 372
 Denver & Intermountain, 606
 Denver & Interurban, 278
 Denver & Rio Grande, 436, 670
 Denver City Tramway Company, 54
 Denver, Enid & Gulf, 28
 Denver, North-Western & Pacific, 54
 Detroit & Charlevoix, 112
 Detroit United Railway, 474
 Dublin & Southwestern, 138
- Eastern Oklahoma, 28, 308
 El Paso & Southwestern, 54
 Erie, 190, 216, 248, 278, 340, 404, 436
 Evansville & Terre Haute, 510
 Evansville Railways, 702
- Fitchburg Railroad, 372
 Fitzgerald, Ocilla & Broxton, 28
 Florida East Coast, 112, 216
 Fort Dodge, Des Moines & Southern (Electric), 84
 Fort Wayne, Cincinnati & Louisville, 308
- Georgia & Florida, 190
 Georgia Coast & Piedmont, 574
 Georgia Railroad & Banking, 670
 Grand Trunk, 190, 308
 Great Northern, 248, 308, 436, 474, 574
 Gulf & Ship Island, 436
 Gulf, Colorado & Santa Fe, 138
 Gulf Line Railway, 474
- Hocking Valley, 436, 606, 702
 Holly & Swink, 308
 Houston & Brazos Valley, 138
 Houston Belt & Terminal, 190
 Hudson & Manhattan, 436
- Illinois Central, 164, 372, 474, 510, 606, 638, 670, 702, 734, 766
 Indiana Harbor Belt, 606
 Interborough-Metropolitan, 216, 248, 308, 340, 368, 702
 Interborough Rapid Transit, 190, 308
 Intermountain Railway, 606
 Interurban Railway & Terminal, 138
 Ione & Eastern, 372
- Joliet & Southern Traction Co., 510
 Joliet, Plainfield & Aurora (Electric), 510
- Kanawha & Michigan, 436, 542, 606, 702
 Kansas City, Mexico & Orient, 28
 Kansas City Railway & Light, 164
 Kansas City Southern, 28, 112, 510, 794
- Lake Erie & Western, 308, 766
 Lake Shore & Michigan Southern, 84, 216, 670, 766
 Lehigh Valley, 510
 Little Kanawha, 734
 Lorain & Ashland, 734
 Los Angeles Pacific (Electric), 278
 Louisiana & Arkansas, 542
- McCloud River, 510
 Mahoning Coal Railroad, 84
 Mahoning Investment Co., 138
 Maine Central, 474
 Massachusetts Electric, 670
 Medford & Crater Lake, 28
 Metropolitan Street Railway, 216, 248, 308, 372, 404, 574
 Mexican Central, 54, 474, 574
 Mexican Railway, 638
 Michigan Central, 112, 216, 278, 670, 766
 Midland Valley, 734
 Millbrook Company, 542
 Milwaukee Electric Railway & Light, 112
 Minneapolis, St. Paul & Sault Ste. Marie, 84, 164, 340, 404, 574
 Mobile, Jackson & Kansas City, 84, 112
- Nashville, Chattanooga & St. Louis, 190
 National Lines of Mexico, 54, 574
 National of Mexico, 308, 404
 National Railroad of Mexico, 474
 National Railways of Mexico, 54
 New England Investment & Security Co., 606
 New Orleans, Fort Jackson & Grand Isle, 734
 New Orleans Railway & Light, 340
 Newton & Northwestern, 84
 New York & Portchester (Electric), 542
 New York, Auburn & Lansing, 112
 New York Central & Hudson River, 190, 574, 670, 766
 New York Central Lines, 190, 308, 574, 734
 New York City Railway, 372, 404
 New York, New Haven & Hartford, 372, 404, 436, 542, 574, 606, 670, 734
 New York, Ontario & Western, 190
 New York, Westchester & Boston (Electric), 542
 Norfolk & Ocean View (Electric), 84
 Norfolk & Southern, 436, 542, 766
 North American Co., 606, 766
 Northern Pacific, 190, 766, 794
 Northwestern Elevated, 248
- Ohio Electric Railways Co., 278
 Old Colony Street Railway, 670
 Oregon Short Line, 574
- Pacific & Eastern, 28
 Pacific Traction Co., 474
 Pan-American, 372
- Pennsylvania, 84, 474, 542, 574, 766
 Pennsylvania Co., 766
 Pennsylvania, New Jersey & New York, 28
 Pennsylvania, New York & Long Island, 28
 Pennsylvania Tunnel & Terminal, 28
 Pere Marquette, 164, 190, 216, 510, 542, 574, 638, 734
 Philadelphia, Baltimore & Washington, 54, 164
 Pittsburg, Fort Wayne & Chicago, 28
 Pittsburg, McKeesport & Greensburg, 138
 Pontiac, Oxford & Northern, 638
 Public Service Corporation, 28, 216
- Rock Island Co., 248
 Rogue River Valley, 28
 Rutland Railroad, 574, 794
- St. Joseph & Grand Island, 702
 St. Joseph, South Bend & Southern, 278
 St. Louis & San Francisco, 248, 474
 St. Louis, Brownsville & Mexico, 84, 138
 St. Louis, Rocky Mountain & Pacific, 766
 St. Louis Southwestern, 164
 St. Marys & Western Ontario, 436
 San Pete Valley, 436
 Santa Fe Central, 112
 Southern, 138, 248, 474, 606
 Southern Indiana, 54
 Southern Pacific, 112, 164, 190, 216, 372, 574, 638, 766
 Stephenville North & South Texas, 474
- Tampa Electric, 638
 Third Avenue Railroad (Electric), 574
 Toledo & Ohio Central, 542, 606, 702
 Toledo, Ann Arbor & Detroit (Electric), 138, 308
 Toledo, Peoria & Western, 340
 Toledo Railways & Light, 474
 Toledo Railway & Terminal, 164, 278, 404, 702
 Toledo, St. Louis & Western, 248, 372, 404
 Topeka & Northwestern, 54
 Trinity & Brazos Valley, 340
 Troy & New England (Electric), 84
- Underground Electric of London, 702
 Union Pacific, 28, 54, 84, 112, 164, 308, 372, 436, 542, 574, 638, 670
 United Railways Investment Co., 54
 United Railways of St. Louis, 28
 United Railroads of San Francisco, 54
- Wabash, 54, 84, 638
 Warren & Corsicana Pacific, 734
 Washington, Idaho & Montana, 340
 Washington (D. C.) Terminal Co., 54
 West Penn Railways (Electric), 138
 Western Maryland, 436
 Western of Alabama, 670
 Western Pacific, 308
 White Pass & Yukon, 84
 Wichita Falls & Northwestern, 542
 Winnipeg Electric, 216
 Wrightsville & Tennesse, 138, 510
- York Railways Co., 638
 Yosemite Valley, 28, 308

